

EXHIBIT C

1 IN THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA
2 CHARLESTON DIVISION

3 MDL NO. 2:12-MD-02327 JOSEPH R. GOODWIN
U.S. DISTRICT JUDGE

4 DEPOSITION OF DOROTHY KAMMERER-DOAK, M.D.

5 March 7, 2017

6 IN RE: ETHICON, INC. PELVIC REPAIR SYSTEM PRODUCTS
7 LIABILITY LITIGATION

8 TVT General
9

APPEARANCES:

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Appearing telephonically on behalf of
14 Plaintiff.

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18 Appearing on behalf of Defendant.
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<p>1 Pursuant to Notice and the Federal Rules of</p> <p>2 Civil Procedure, the deposition of DOROTHY</p> <p>3 KAMMERER-DOAK, M.D. called by Plaintiff, was taken on</p> <p>4 Tuesday, March 7, 2017, commencing at 9:05 a.m., at</p> <p>5 457 Mountain Village Boulevard, Telluride, Colorado,</p> <p>6 before Dianna L. Buckstein, Professional Shorthand</p> <p>7 Reporter and Notary Public within and for the State</p> <p>8 of Colorado.</p> <p>9</p> <p>10 INDEX</p> <p>11</p> <p>12 DEPOSITION OF DOROTHY KAMMERER-DOAK, M.D.</p> <p>13 EXAMINATION BY: PAGE</p> <p>14 Mr. Schnieders 4</p> <p>15 Mr. Koopmann --</p> <p>16</p> <p>17 EXHIBITS INITIAL REFERENCE</p> <p>18 Exhibit 1 Notice to Take Deposition 4</p> <p>19 of Dr. Dorothy Kammerer-Doak</p> <p>20 Exhibit 2 Curriculum vitae of 4</p> <p>21 Dorothy Kammerer-Doak</p> <p>22 Exhibit 3 General Reliance List in 4</p> <p>23 Addition to Materials</p> <p>24 Referenced in Report,</p> <p>25 MDL Wave 4</p> <p>Exhibit 4 Expert Report of Dorothy 4</p> <p>Kammerer-Doak, M.D.</p>	<p>1 PROCEEDINGS</p> <p>2 (Exhibits 1 through 4 were marked.)</p> <p>3 DOROTHY KAMMERER-DOAK, M.D.</p> <p>4 being first duly sworn in the above cause, was</p> <p>5 examined and testified as follows:</p> <p>6 EXAMINATION</p> <p>7 BY MR. SCHNIEDERS:</p> <p>8 Q Good morning, Doctor. We are taking this</p> <p>9 deposition by phone, so I'm going to -- I would like</p> <p>10 you to bear with me. If we ever get to a point where</p> <p>11 you can't hear me or if I can't hear you, we might</p> <p>12 have to adjust the seating situation; but as long as</p> <p>13 you can hear me okay at this point, I think we're</p> <p>14 working okay.</p> <p>15 Can you hear me?</p> <p>16 A Yes.</p> <p>17 Q Okay. Doctor, could you please state for</p> <p>18 the jury your full name.</p> <p>19 A Dorothy Kammerer-Doak.</p> <p>20 Q If I refer to you as Dr. Kammerer-Doak, is</p> <p>21 that okay?</p> <p>22 A Yes.</p> <p>23 Q Doctor, have you ever been deposed before?</p> <p>24 A Yes.</p> <p>25 Q On how many occasions have you been</p>
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<p>1 EXHIBITS INITIAL REFERENCE</p> <p>2 Exhibit 5 Envelope with two 16</p> <p>3 thumb drives in it</p> <p>4 Exhibit 6 Document entitled 19</p> <p>5 Invoice for services</p> <p>6 Exhibit 7 E-mail chain 20</p> <p>7 Exhibit 8 Supplemental materials 24</p> <p>8 Exhibit 9 Supplemental General 24</p> <p>9 Reliance List in Addition to</p> <p>10 Materials Referenced in</p> <p>11 Report, MDL Wave 4</p> <p>12 Exhibit 10 Document entitled Vaginal 100</p> <p>13 Erosion of Cadaveric Fascia</p> <p>14 Lata following Abdominal</p> <p>15 Sacrocolpopexy and Suburethral</p> <p>16 Sling Urethropexy</p> <p>17 Exhibit 11 E-mail chain, Subject: IUGA 106</p> <p>18 R&D Committee: Pelvic Floor</p> <p>19 Simulator</p> <p>20 INFORMATION REQUESTED TO BE SUPPLIED PAGE</p> <p>21 List of depositions 8</p> <p>22 Most current curriculum vitae 37</p> <p>23</p> <p>24</p> <p>25</p>	<p>1 deposed?</p> <p>2 A Approximately six times.</p> <p>3 Q Okay. We'll talk about that in a moment,</p> <p>4 but for the purposes of the deposition going well, I</p> <p>5 just wanted to briefly remind you of the ground rules</p> <p>6 that you probably already knew from those.</p> <p>7 One, especially when I'm on the phone, it's</p> <p>8 important that you let me finish my question before</p> <p>9 you start your answer; is that fair?</p> <p>10 A Yes.</p> <p>11 Q Two, you're being -- your testimony is</p> <p>12 under oath today, and it's -- you've been sworn to</p> <p>13 tell the truth the same way as you would in front of</p> <p>14 the judge and jury.</p> <p>15 You understand that, right?</p> <p>16 A Yes.</p> <p>17 Q Lastly, if I ask a question, especially</p> <p>18 over the phone, if I can't hear you or if it's an</p> <p>19 "uh-huh" or "huh-uh," I have a tough time</p> <p>20 understanding what that means and so does the court</p> <p>21 reporter; so I may ask you to repeat or to say, "Is</p> <p>22 that a 'yes'; is that a 'no'?" It's not intended to</p> <p>23 be rude. I just want to make sure we have a clear</p> <p>24 record, okay?</p> <p>25 A Yes.</p>

<p style="text-align: right;">Page 6</p> <p>1 Q Doctor, you understand that for the 2 purposes of this deposition, you are here today to 3 talk about an expert report that you have rendered in 4 the Ethicon TVT litigation. 5 Do you understand that? 6 A Yes. 7 Q And it's your intention today to offer 8 opinions with regard to the TVT device; is that 9 right? 10 A Please repeat that. 11 Q It's your intention as we sit here today to 12 offer opinions with regard to the TVT device that's 13 manufactured by Ethicon, correct? 14 (Reporter requested clarification.) 15 Q (By Mr. Schnieders) -- manufactured by 16 Ethicon, correct? 17 A Yes. 18 Q Okay. Now, as far as the other depositions 19 that you've offered, Doctor, you said that you've 20 been deposed on six occasions that you can recall; is 21 that right? 22 A Approximately. I didn't count them out. 23 Q Okay. 24 A It could be -- it's somewhere between 6 and 25 10.</p>	<p style="text-align: right;">Page 8</p> <p>1 given over the past five years? 2 A No. 3 Q Okay. And you never made a list like that? 4 A I have not. 5 Q Okay. 6 MR. SCHNIEDERS: Barry, I ask pursuant to 7 civil procedure rules that you provide a list as soon 8 as possible of those depositions, okay? 9 MR. KOOPMANN: I think that she hasn't been 10 deposed as an expert witness in the last four years, 11 and she said that in her general report, if I'm not 12 mistaken. 13 MR. SCHNIEDERS: Well, if that's the case, 14 we'll find out, I guess, here. 15 A No. I have not been deposed as an expert 16 witness in the past four years. 17 Q (By Mr. Schnieders) Have you ever offered 18 expert testimony? 19 A I was deposed as an expert witness about 10 20 or 11 years ago. 21 Q Okay. And what was that with regard to? 22 A It was with regard to an obstetrical anal 23 sphincter laceration. 24 Q Were you offering testimony on behalf of a 25 party in that case?</p>
<p style="text-align: right;">Page 7</p> <p>1 Q Have any of those depositions occurred in 2 the last five years? 3 A Yes. 4 Q And do you keep a list of your testimony 5 that you've offered anywhere? 6 A No. 7 Q Did counsel before this deposition at any 8 point ask you for a list of your dep -- over the last 9 five years? 10 (Reporter requested clarification.) 11 A Sorry. Just someone just opened the door. 12 Can you please repeat that? 13 Q (By Mr. Schnieders) Are you having a tough 14 time hearing me, because I'm right in front of my 15 phone. 16 A Yes. Let me see if I can turn this phone 17 up any more. Okay. 18 Q Is that -- hopefully that's better. I'm 19 not sure if it's going up or not. We'll see. I will 20 try to keep my voice up and see what we can do here, 21 okay? 22 A Okay. 23 Q Doctor, at any point prior to rendering 24 your expert report, did counsel for Ethicon ask you 25 to compile a list of all the depositions that you had</p>	<p style="text-align: right;">Page 9</p> <p>1 A I was the plaintiff's expert. 2 Q Okay. And was that a medical malpractice 3 case? 4 A Yes, it was. 5 Q Did you ever give trial testimony in that 6 case? 7 A I did not. 8 Q Are you aware of what the resolution of 9 that case was? 10 A I am not. 11 Q Now, with regard to the depositions that 12 have occurred more recently, what has been the 13 subject matter of those depositions? 14 A A fact witness. 15 Q Okay. Have they all been medical 16 malpractice cases where you were a treating 17 physician? 18 A Some have been where I was a treating 19 physician, and the others have been -- and another 20 one was -- I'm trying to figure how to best describe 21 it. I wasn't the treating physician. I was 22 defending another physician kind of as a character 23 witness and to testify to her surgical skills as she 24 had assisted me. 25 Q And what kind of physician was that</p>

<p style="text-align: right;">Page 10</p> <p>1 physician?</p> <p>2 A A gynecological physician.</p> <p>3 Q And what was the subject surgery in that</p> <p>4 case?</p> <p>5 A Say that again.</p> <p>6 Q What was the subject surgery in that case?</p> <p>7 A So she was assisting a GYN oncologist on a</p> <p>8 radical cancer surgery case that was laparoscopic.</p> <p>9 The surgeries that she's assisted me on were both</p> <p>10 laparoscopic gynecological cases and vaginal</p> <p>11 urogynecological cases.</p> <p>12 Q Okay. With regards to any of these cases</p> <p>13 where you testified as a fact witness, did they</p> <p>14 involve transvaginal mesh?</p> <p>15 A In one case she did have a sling placed,</p> <p>16 but that was not what the suit was about.</p> <p>17 Q Okay. What was the suit about?</p> <p>18 A She had developed a pelvic hematoma</p> <p>19 following a hysterectomy that was performed vaginally</p> <p>20 in a prolapse repair.</p> <p>21 Q And if you can recall, where was that case</p> <p>22 filed?</p> <p>23 A It was filed in New Mexico.</p> <p>24 Q Do you know if it was filed in state court</p> <p>25 or in federal court?</p>	<p style="text-align: right;">Page 12</p> <p>1 only case that involved transvaginal mesh product was</p> <p>2 actually about something else beyond that, and you</p> <p>3 didn't offer any testimony with regards to the mesh;</p> <p>4 is that right?</p> <p>5 A We did talk about the sling in the case,</p> <p>6 but the case was not about the sling itself.</p> <p>7 Q Got it. Okay. Doctor, I understand that</p> <p>8 we've brought -- you've brought some binders and</p> <p>9 other materials with you here today; is that right?</p> <p>10 A Yes.</p> <p>11 Q Okay. Can you tell us for the record what</p> <p>12 you brought with you?</p> <p>13 A So I have a binder with my general TVT</p> <p>14 report, and the literature that was used to compile</p> <p>15 this. I also have a supplemental general reliance</p> <p>16 list in addition to the materials referenced in the</p> <p>17 report.</p> <p>18 I have another binder that contains some of</p> <p>19 the key literature that was reviewed in the</p> <p>20 preparation. And I also have a binder that's labeled</p> <p>21 Stress Urinary Incontinence Mesh Documents Binder 1</p> <p>22 that contains some company memos as well as other</p> <p>23 articles.</p> <p>24 Q Okay. A couple things there, Doctor. You</p> <p>25 said something about a supplemental reliance list.</p>
<p style="text-align: right;">Page 11</p> <p>1 A I don't have any idea.</p> <p>2 Q Okay. And that's fair. And, again, if we</p> <p>3 get to anything where you just don't know the answer</p> <p>4 or are not sure, that's what I want you to say. I</p> <p>5 don't want you to guess at anything.</p> <p>6 You understand that the litigation we are</p> <p>7 here today regarding is in federal court in West</p> <p>8 Virginia.</p> <p>9 Did you know that?</p> <p>10 A Yes.</p> <p>11 Q Okay.</p> <p>12 THE DEPONENT: We're having a really hard</p> <p>13 time hearing you, Mr. Schnieders, and we're going to</p> <p>14 go downstairs and see if they can give us a better</p> <p>15 phone.</p> <p>16 (Recess from 9:13 a.m. to 9:19 a.m.)</p> <p>17 Q (By Mr. Schnieders) We're back on the</p> <p>18 record, Doctor. We were talking a bit about your</p> <p>19 deposition that you had offered in the past, and I</p> <p>20 think we established that all the depositions in the</p> <p>21 last four to five years were related to fact witness</p> <p>22 testimony in medical malpractice cases; is that</p> <p>23 right?</p> <p>24 A Yes.</p> <p>25 Q And I think we also established that the</p>	<p style="text-align: right;">Page 13</p> <p>1 Is there an additional reliance list to</p> <p>2 what you issued with your general report?</p> <p>3 A I didn't finish my answer. I'm sorry.</p> <p>4 Q Sorry about that.</p> <p>5 A No. I also have two disks that contain all</p> <p>6 of the information. They're not disks, they're</p> <p>7 sticks. I have a copy of my invoice, as well as the</p> <p>8 e-mails. And I also have some articles that are in</p> <p>9 addition to what's in my original list.</p> <p>10 Q Okay. Are you finished now, Doctor? I</p> <p>11 don't want to cut you off.</p> <p>12 A I'm sorry. No. It's difficult when we're</p> <p>13 not face-to-face. Yes, I'm finished. Thank you.</p> <p>14 Q No problem. So -- and you might have</p> <p>15 answered my question there with that last binder. It</p> <p>16 sounds like you've got a binder that has some</p> <p>17 materials in it that were not part of your original</p> <p>18 reliance list; is that fair?</p> <p>19 A Yes.</p> <p>20 Q Okay. And were those materials what is</p> <p>21 reflected in your supplemental reliance list?</p> <p>22 A Some of these are in addition to what's in</p> <p>23 my supplemental reliance list.</p> <p>24 Q Okay. Just for my benefit since I'm not</p> <p>25 looking at this binder, how many pages are we</p>

<p style="text-align: right;">Page 14</p> <p>1 estimating are in that binder, how many studies?</p> <p>2 A They're all -- they're loose. So I have 1,</p> <p>3 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16,</p> <p>4 17 -- 18 documents.</p> <p>5 Q Okay. And if I'm understanding right, not</p> <p>6 all 18 of those documents appear even on the</p> <p>7 supplemental reliance list; is that correct?</p> <p>8 MR. KOOPMANN: Do you know the answer to</p> <p>9 that?</p> <p>10 A I don't know.</p> <p>11 Q (By Mr. Schnieders) Okay.</p> <p>12 A Like for example, I know for sure some of</p> <p>13 them are not. One of the articles that I have is an</p> <p>14 article that I pulled regarding urethral erosion</p> <p>15 after synthetic and nonsynthetic pubo-vaginal slings,</p> <p>16 differences in management and continence outcomes.</p> <p>17 And I pulled that after reading Dr. Blaivas's</p> <p>18 deposition, where he had said he had never seen a</p> <p>19 urethral erosion after a pubo-vaginal sling. And so</p> <p>20 I pulled this where it showed that there are such a</p> <p>21 thing -- where there is such a thing.</p> <p>22 Q When you say you read Dr. Blaivas's</p> <p>23 deposition, are you talking about his recent</p> <p>24 deposition he offered in the case specific context</p> <p>25 with regard to Crespin?</p>	<p style="text-align: right;">Page 16</p> <p>1 drives containing general materials and one with just</p> <p>2 Crespin materials.</p> <p>3 Q (By Mr. Schnieders) Okay. Now, the thumb</p> <p>4 drives that relate to general materials, would they</p> <p>5 encompass everything including what's in the binders</p> <p>6 there?</p> <p>7 A Yes.</p> <p>8 Q Okay.</p> <p>9 MR. SCHNIEDERS: I'm going to mark those</p> <p>10 thumb drives as Exhibit 5, which is what I think</p> <p>11 we're up to. And I just ask that those be handled in</p> <p>12 the same way as previous thumb drives have with</p> <p>13 regard to making them exhibits, if you don't mind,</p> <p>14 Madam Court Reporter.</p> <p>15 THE REPORTER: Okay.</p> <p>16 (Exhibit 5 was marked.)</p> <p>17 Q (By Mr. Schnieders) All right. Now,</p> <p>18 Doctor, you said that you pulled some additional</p> <p>19 materials, that are part of what I'm going to call</p> <p>20 the supplemental binder, yourself.</p> <p>21 When did you pull those materials?</p> <p>22 MR. KOOPMANN: Object to form. Go ahead.</p> <p>23 A They were pulled over the past, I would</p> <p>24 say, two to three weeks.</p> <p>25 Q (By Mr. Schnieders) Okay. And all of the</p>
<p style="text-align: right;">Page 15</p> <p>1 A I'm not sure if it was that one or his</p> <p>2 general deposition, his general TVT, because I read</p> <p>3 both of those.</p> <p>4 Q Okay. Well, his general deposition</p> <p>5 occurred well before you issued your general report.</p> <p>6 Is that something you would have read</p> <p>7 before issuing your report?</p> <p>8 A No. I read it recently.</p> <p>9 Q Okay. And you recognize that that is on</p> <p>10 your list of reliance materials related to your TVT</p> <p>11 general report, right?</p> <p>12 A What is?</p> <p>13 Q Dr. Blaivas's deposition, his general</p> <p>14 deposition.</p> <p>15 A Yes.</p> <p>16 Q Okay. But it's your testimony today that</p> <p>17 you didn't read that prior to issuing your general</p> <p>18 report, right?</p> <p>19 A Yes.</p> <p>20 Q Okay. All right. I think I want to do it</p> <p>21 this way: So there's a thumb drive, as I understand,</p> <p>22 and I think there's also another thumb drive that's</p> <p>23 specific to Crespin.</p> <p>24 MR. SCHNIEDERS: Is that right, Barry?</p> <p>25 MR. KOOPMANN: Yes. There's two thumb</p>	<p style="text-align: right;">Page 17</p> <p>1 other binders that contain materials that you brought</p> <p>2 here today, did you or your office actually put those</p> <p>3 binders together?</p> <p>4 A The binders were put together by and given</p> <p>5 to me by Dr. Koopmann -- Mr. Koopmann, I'm sorry.</p> <p>6 Q Okay. And so the materials that are in</p> <p>7 those binders were selected by Mr. Koopmann's office,</p> <p>8 correct?</p> <p>9 A No. That's not correct. They were</p> <p>10 articles -- some of them were given to me or supplied</p> <p>11 by him, but a lot of them, in fact, most of them, are</p> <p>12 articles with which I am familiar or I asked to be</p> <p>13 pulled myself.</p> <p>14 Most of the articles that are in the</p> <p>15 binders are ones that I have read before. Ones that</p> <p>16 are new to me are ones that are from journals that I</p> <p>17 don't typically access as a female pelvic medicine or</p> <p>18 reconstructive surgery specialist; and that would be,</p> <p>19 for example, the Journal of Urology, and then some of</p> <p>20 the European journals.</p> <p>21 Q And I appreciate the clarification, but I</p> <p>22 want to make sure that we're tracking because that</p> <p>23 wasn't exactly my question.</p> <p>24 It sounds like those binders don't have</p> <p>25 every single document that was part of your reliance</p>

<p style="text-align: right;">Page 18</p> <p>1 materials; is that right?</p> <p>2 A Yes.</p> <p>3 Q Okay. So there were selections made from</p> <p>4 your reliance materials to put into those binders</p> <p>5 that you've brought here today, fair?</p> <p>6 A Yes.</p> <p>7 Q Who decided what those materials would be</p> <p>8 in those binders?</p> <p>9 A It was based on my report that was</p> <p>10 generated.</p> <p>11 Q And I'm not sure that I understand. You</p> <p>12 mean that they are the materials that were cited</p> <p>13 within the report itself?</p> <p>14 A So in my general report, I have articles</p> <p>15 that I cited, and that is what is in the binder that</p> <p>16 contains my general report.</p> <p>17 As far as the other two binders, those were</p> <p>18 given by Mr. Koopmann.</p> <p>19 Q Okay. And those are selections of what</p> <p>20 ended up on the reliance list itself, fair?</p> <p>21 A Yes.</p> <p>22 Q And those selections were made by</p> <p>23 Mr. Koopmann's office?</p> <p>24 MR. KOOPMANN: Object to form.</p> <p>25 A Yes.</p>	<p style="text-align: right;">Page 20</p> <p>1 A Yes.</p> <p>2 Q Okay. The first invoice you said was</p> <p>3 November of 2016. Is that the first invoice that you</p> <p>4 have submitted in the Ethicon litigation?</p> <p>5 A Yes, it is.</p> <p>6 Q Okay. And I believe -- and correct me if</p> <p>7 I'm wrong -- that you also said there were some</p> <p>8 e-mails representing contact from Ethicon to you to</p> <p>9 begin the process of reviewing this case; is that</p> <p>10 right?</p> <p>11 A That is correct.</p> <p>12 Q Okay. I'd ask that those be marked as</p> <p>13 Exhibit 7, please.</p> <p>14 (Exhibit 7 was marked.)</p> <p>15 A And that's finished.</p> <p>16 Q (By Mr. Schnieders) Thank you.</p> <p>17 Doctor, when were you first contacted with</p> <p>18 regard to this case?</p> <p>19 A It was probably sometime March or April of</p> <p>20 2016.</p> <p>21 Q Okay. And who contacted you initially?</p> <p>22 A Mr. Koopmann.</p> <p>23 Q And what -- what was the -- what was the</p> <p>24 request from Mr. Koopmann's office for you to look</p> <p>25 at?</p>
<p style="text-align: right;">Page 19</p> <p>1 Q (By Mr. Schnieders) All right. Doctor,</p> <p>2 you stated that you had some invoices there that you</p> <p>3 brought today; is that right?</p> <p>4 A Yes.</p> <p>5 Q I would like to mark those as Exhibit 6,</p> <p>6 please.</p> <p>7 (Exhibit 6 was marked.)</p> <p>8 (Discussion off the record.)</p> <p>9 Q (By Mr. Schnieders) Doctor, how many pages</p> <p>10 am I looking at here in Exhibit 6?</p> <p>11 A Two.</p> <p>12 Q Can you tell me the dates of those</p> <p>13 invoices?</p> <p>14 A So the first one says, Invoice for services</p> <p>15 November 2016; and the second one is from December,</p> <p>16 January, and February.</p> <p>17 Q And that would track over December of 2016</p> <p>18 through January and February of 2017?</p> <p>19 A Correct.</p> <p>20 Q Okay. And what's the total amount of those</p> <p>21 invoices in Exhibit 6?</p> <p>22 A So from December through February, it's</p> <p>23 \$16,886.45; and for November 2016, it's \$4,434.50.</p> <p>24 Q Okay. So approximately \$20,000 of invoices</p> <p>25 that comprise Exhibit 6?</p>	<p style="text-align: right;">Page 21</p> <p>1 A So when he contacted me, he simply asked me</p> <p>2 if I would be amenable to being an expert witness for</p> <p>3 Johnson & Johnson.</p> <p>4 Q Okay. And was that with regard to the TVT</p> <p>5 products; with regard to slings, generally; with</p> <p>6 regard to POP kits; or was there any specification?</p> <p>7 A We discussed all of the above; and because</p> <p>8 I really haven't done a lot of the pelvic mesh</p> <p>9 kits -- in fact, none that were manufactured by</p> <p>10 Johnson & Johnson -- I said I was comfortable being</p> <p>11 an expert witness for the retropubic TVT sling.</p> <p>12 Q Okay. Have you ever used Ethicon products</p> <p>13 for -- and -- strike that.</p> <p>14 Have you ever used Ethicon vaginal mesh</p> <p>15 products?</p> <p>16 A No, I have not.</p> <p>17 Q Okay. So as we sit here today, you've</p> <p>18 never actually implanted a TVT?</p> <p>19 A Well, no. You asked me about prolapse</p> <p>20 cases.</p> <p>21 Q Well, and that's a fair distinction. Let</p> <p>22 me make it this way: So is there mesh in a sling?</p> <p>23 A Yes. So I've implanted many Ethicon TVT</p> <p>24 retropubic slings.</p> <p>25 Q Okay. And is the TVT retropubic sling the</p>

<p style="text-align: right;">Page 22</p> <p>1 only Ethicon-manufactured mesh product that you used?</p> <p>2 A Yes.</p> <p>3 Q Okay. All right. So, Doctor, is there</p> <p>4 unbilled time that you have related to your general</p> <p>5 testimony that you're offering here today that has</p> <p>6 not been submitted yet?</p> <p>7 A Starting from today -- starting from March</p> <p>8 1st, yes, there's time.</p> <p>9 Q Okay. And have you met with counsel for</p> <p>10 Ethicon over the past week at times?</p> <p>11 A Yes, I have.</p> <p>12 Q How many times?</p> <p>13 A Once.</p> <p>14 Q And for how long was that meeting?</p> <p>15 A It was 7-1/2 hours.</p> <p>16 Q And when did that occur?</p> <p>17 A Yesterday.</p> <p>18 Q Was that a face-to-face meeting?</p> <p>19 A Yes.</p> <p>20 Q Any other time that you've spent preparing</p> <p>21 for your deposition here today?</p> <p>22 A Yes. We had a phone conversation.</p> <p>23 Q Okay. What about time on your own? Is</p> <p>24 there any other time on your own that you've spent</p> <p>25 preparing for today's deposition?</p>	<p style="text-align: right;">Page 24</p> <p>1 A Correct.</p> <p>2 Q Okay. So given that, I don't know that I</p> <p>3 need to mark the binders that are representative of</p> <p>4 materials that were on your original reliance list,</p> <p>5 but I do want to mark the binder that we are calling</p> <p>6 the supplemental binder.</p> <p>7 MR. SCHNIEDERS: So if you wouldn't mind, I</p> <p>8 think that's Exhibit 8, please.</p> <p>9 MR. KOOPMANN: Just so you know, Chris,</p> <p>10 that's not an actual binder; it's just a stack of</p> <p>11 paper.</p> <p>12 MR. SCHNIEDERS: Okay. I think it's still</p> <p>13 probably -- we're going to get down to a lot of</p> <p>14 exhibits if we mark them all separately, so let's</p> <p>15 just call Exhibit 8 the supplemental materials.</p> <p>16 MR. KOOPMANN: Okay.</p> <p>17 (Exhibit 8 was marked.)</p> <p>18 THE DEPONENT: Okay. That's done.</p> <p>19 Q (By Mr. Schnieders) And lastly, just to</p> <p>20 make sure we're talking about the same stuff, I'm</p> <p>21 going to mark as Exhibit 9 the supplemental reliance</p> <p>22 list that you brought here today, Doctor.</p> <p>23 (Exhibit 9 was marked.)</p> <p>24 A That's finished.</p> <p>25 Q (By Mr. Schnieders) Okay. And for my</p>
<p style="text-align: right;">Page 23</p> <p>1 A In reviewing the documents that I will be</p> <p>2 discussing, yes.</p> <p>3 Q Okay. And, for instance, with regard to</p> <p>4 the study that you've referenced in your supplemental</p> <p>5 binder, when did you go and find that?</p> <p>6 A Within the past couple of weeks.</p> <p>7 Q Okay. Any other materials that you have</p> <p>8 gone and found yourself that make up that</p> <p>9 supplemental binder?</p> <p>10 A No, but there are -- let me amend that.</p> <p>11 There are things that I have asked for and have been</p> <p>12 supplied to me.</p> <p>13 Q Okay. I think to make it -- so let me ask</p> <p>14 it this way: With regard to the binders that you've</p> <p>15 brought here today, did you make any notes or other</p> <p>16 highlights, anything like that in them?</p> <p>17 A No, I did not.</p> <p>18 Q So the binders themselves are just the</p> <p>19 printed-off pages of the materials on your reliance</p> <p>20 list as we discussed so far, right?</p> <p>21 A Say that again, please.</p> <p>22 Q Sure. It's a bad question.</p> <p>23 The materials that are in the binders are</p> <p>24 just the printed-off pages of some of the materials</p> <p>25 on your reliance list, fair?</p>	<p style="text-align: right;">Page 25</p> <p>1 benefit since I'm on the phone, are there any</p> <p>2 materials that you have there that we haven't</p> <p>3 discussed at this point?</p> <p>4 A No, there is not.</p> <p>5 Q Okay. All right, Doctor. I'm going to ask</p> <p>6 you to turn to your CV if it's necessary, but we've</p> <p>7 marked it as Exhibit 2.</p> <p>8 I'd like to talk a little bit about your</p> <p>9 background, okay?</p> <p>10 A Okay.</p> <p>11 Q All right. And, Doctor, you're currently</p> <p>12 in private practice; is that right?</p> <p>13 A That is correct.</p> <p>14 Q And where are you in private practice?</p> <p>15 A In Albuquerque, New Mexico.</p> <p>16 Q Okay. And tell me what your current</p> <p>17 practice is, meaning what do you do on a weekly</p> <p>18 basis.</p> <p>19 A So the practice is focused on</p> <p>20 urogynecology. There are five health care providers</p> <p>21 there. I am a board-certified female pelvic medicine</p> <p>22 and reconstructive surgeon. And so what I see</p> <p>23 probably is about 60 to 70 percent urogyn, and then</p> <p>24 the remainder is general gynecology. And we focus on</p> <p>25 all types of issues in regards to the pelvic floor</p>

<p style="text-align: right;">Page 26</p> <p>1 and problems in that area.</p> <p>2 Q And are all of your colleagues</p> <p>3 urogynecologists as well?</p> <p>4 A I have one other colleague that is board</p> <p>5 certified, and then the third person, who also</p> <p>6 specializes in pelvic floor disorders, is not board</p> <p>7 certified, but she has practiced a lot of it over the</p> <p>8 past 10 years and trained under me when I was</p> <p>9 training the residents at the University of New</p> <p>10 Mexico residency program.</p> <p>11 Q Okay. And I think you referenced a couple</p> <p>12 of other colleagues. So what is their specialty?</p> <p>13 A Gynecologists.</p> <p>14 Q Okay. Sorry. Maybe I missed that.</p> <p>15 And then you say that 60 to 70 percent of</p> <p>16 your practice is spent in urogynecological issues and</p> <p>17 the other 30 to 40 percent is spent in general</p> <p>18 gynecology; is that right?</p> <p>19 A Yes.</p> <p>20 Q So I want to take that percentage that's</p> <p>21 dealing with urogynecologic issues. Try to break</p> <p>22 down for me what that encompasses in your practice.</p> <p>23 A So you mean what type of problems that it</p> <p>24 encompasses? Or what are you meaning by that?</p> <p>25 Q Let's start with what you're treating and</p>	<p style="text-align: right;">Page 28</p> <p>1 urinary and fecal incontinence?</p> <p>2 A So fecal incontinence is less common. So,</p> <p>3 you know, that would be in the range of somewhere</p> <p>4 between 10 to 15 percent. And then urinary</p> <p>5 incontinence often goes hand in hand, meaning it</p> <p>6 coexists with prolapse, so it would be more than</p> <p>7 50 percent would involve urinary incontinence.</p> <p>8 Q Okay. And is there any way for you to</p> <p>9 break out based upon that answer the amount of your</p> <p>10 practice that's urogynecologically spent regarding</p> <p>11 prolapse?</p> <p>12 A I'm thinking. So, again, it would be</p> <p>13 somewhere in the range of 40 to 50 percent because,</p> <p>14 again, these conditions often coexist.</p> <p>15 Oh, the other thing I will evaluate and</p> <p>16 manage is voiding dysfunction as well. That's</p> <p>17 another problem that we evaluate.</p> <p>18 Q So if I'm tracking right with you, Doctor,</p> <p>19 it sounds like somewhere just north of 50 percent of</p> <p>20 your urogynecological practice is spent on urinary</p> <p>21 incontinence, which oftentimes overlaps with your</p> <p>22 prolapse treatment, fair?</p> <p>23 A Yes, or coexists with the prolapse and vice</p> <p>24 versa.</p> <p>25 Q Currently, when you treat prolapse, what</p>
<p style="text-align: right;">Page 27</p> <p>1 what the percentages are of that.</p> <p>2 A Okay. So typical problems involve urinary</p> <p>3 and fecal incontinence, prolapse, other pelvic</p> <p>4 disorders, urological disorders that involve the</p> <p>5 pelvis such as interstitial cystitis or painful</p> <p>6 bladder syndrome --</p> <p>7 (Reporter requested clarification.)</p> <p>8 A -- bladder such as interstitial cystitis or</p> <p>9 painful bladder syndrome, chronic pelvic pain, pelvic</p> <p>10 floor muscle spasms, sexual dysfunction. I'm trying</p> <p>11 to think if there's any else. Oh, recurrent urinary</p> <p>12 tract infections.</p> <p>13 So as long as it's in the pelvic area, I</p> <p>14 will evaluate that; but, for example, kidney stones</p> <p>15 or kidney issues, I don't deal with that.</p> <p>16 I will work up persistent hematuria,</p> <p>17 including cystoscopy, but if an abnormality is found</p> <p>18 on cystoscopy such as a tumor, then I will refer</p> <p>19 those to the urologist to treat.</p> <p>20 Q Okay. So you've mentioned urinary and</p> <p>21 fecal incontinence as part of that practice; is that</p> <p>22 correct?</p> <p>23 A Yes.</p> <p>24 Q Okay. And what percentage of your</p> <p>25 urogynecologic practice would you say encompasses</p>	<p style="text-align: right;">Page 29</p> <p>1 are you typically going to do to help a woman?</p> <p>2 A So there are three main treatments of</p> <p>3 prolapse. The first is conservative, and that</p> <p>4 involves trying to minimize the progression of the</p> <p>5 prolapse; and it's performing Kegel exercises,</p> <p>6 avoiding prolong standing, heavy lifting,</p> <p>7 constipation; and, oftentimes, if a woman is post</p> <p>8 menopausal, giving them vaginal estrogen, which</p> <p>9 doesn't take the prolapse away, but it thickens the</p> <p>10 vaginal tissues and makes the irritation from the</p> <p>11 prolapse less.</p> <p>12 Secondly, is the use of a pessary, which is</p> <p>13 a device that's placed inside of the vagina; and it</p> <p>14 can be managed by the patient herself, or it can be</p> <p>15 managed by a health care provider.</p> <p>16 And then, lastly, there's surgery.</p> <p>17 And so when I see a patient, I discuss all</p> <p>18 three of the options with them, and then we come up</p> <p>19 with an individualized plan based on their</p> <p>20 examination as well as the symptoms that they have.</p> <p>21 Q And what are the surgical options that you</p> <p>22 would currently be offering patients under those</p> <p>23 scenarios?</p> <p>24 A So mostly we do vaginal surgery for</p> <p>25 primary, nonrecurrent pelvic organ prolapse, and that</p>

<p style="text-align: right;">Page 30</p> <p>1 is a native tissue repair that is performed 2 vaginally. So if a woman has a uterus in situ, we do 3 a vaginal hysterectomy, and then we resuspend the top 4 of the vagina, the apex, to ligaments on either side 5 of the rectum up by the tailbone area. 6 If there is a cystocele that is central, 7 then that is repaired, again native tissue using 8 sutures with an anterior repair. And if they have a 9 rectocele that is distal or in the middle of the 10 vagina, we do a posterior repair with perineorrhaphy. 11 If somebody has recurrent prolapse, meaning 12 they've undergone a surgery previously and it's 13 failed, then we talk about a mesh augmentation of 14 that surgery, and that can be performed either 15 vaginally or abdominally. 16 At this stage, I really don't perform any 17 more vaginal mesh cases. They are all done either 18 laparoscopically or robotically with the abdominal 19 sacrocolpopexy. 20 Q And in the scenario that you have decided 21 to use mesh augmentation, what mesh do you use? 22 A So I am not performing the abdominal 23 sacrocolpopexies. I haven't performed any for the 24 past eight to nine years. 25 Q Okay. So the last time that you did</p>	<p style="text-align: right;">Page 32</p> <p>1 mesh; but I have not assisted her on any of the 2 cases, so I'm not sure what mesh she is using. 3 Q The PROLENE mesh that you discussed using 4 in the past, is that something that's available to be 5 used today? 6 A I don't know. I haven't researched that. 7 Q Are you offering any opinions here today 8 regarding the safety and efficacy of mesh when used 9 to augment a POP repair? 10 A No. I'm specifically here to discuss the 11 TVT sling. 12 Q Prior to referring on a patient to your 13 colleague for the potential mesh augmentation, do you 14 have any sort of a risk-benefit discussion with that 15 patient? 16 A Yes. 17 Q And tell me what that entails. 18 A So when I'm talking about a prolapse 19 repair -- I just want to make that clear -- we're 20 talking about somebody who has recurrent prolapse? 21 Q Yes. 22 A Okay. So I discuss with them that their 23 choices for treatment are conservative pessary or 24 surgery; and that because they failed a previous 25 native tissue repair, to do another one more than</p>
<p style="text-align: right;">Page 31</p> <p>1 perform a mesh augmentation, what mesh did you use? 2 A PROLENE. 3 Q What is the reason that you are no longer 4 performing those procedures? 5 A Because there's very few ladies that 6 require the abdominal sacrocolpopexy; and in private 7 practice, those surgeries take about five hours in my 8 hands. And so I have referred them out: initially, 9 to the University of New Mexico; and now to my 10 partner, who does do them. 11 When I went into private practice, which 12 was about 8-1/2, 9 years ago, I didn't have someone 13 to assist me that was familiar with that procedure; 14 and my specialty is the vaginal route; and there's 15 not a lot of people in New Mexico who do those types 16 of surgeries. So that is what I specialized in. 17 Q Okay. And are you aware of -- strike that. 18 If I heard you right, you said that 19 currently in that type of a case you're referring 20 those types of patients to one of your colleagues in 21 your practice; is that correct? 22 A Yes. 23 Q And are you aware of what mesh is used by 24 your colleague? 25 A I am not. I know she uses the Y-shaped</p>	<p style="text-align: right;">Page 33</p> <p>1 likely would fail; and so a mesh-augmented repair is 2 something to be considered. We talk about going 3 through the abdomen, and going through the abdomen as 4 compared to going vaginally has a higher risk simply 5 because we are in the intra-abdominal cavity. 6 We also talk about because of being in the 7 intra-abdominal cavity, there's higher risks of 8 bleeding because of where the mesh is attached over 9 the sacral area. 10 We then talk about the risks of using mesh 11 over native tissue and that we have to balance out 12 the risks, increased risks of surgery, which do 13 include the mesh as well as the operative approach, 14 to the benefit of an increased chance of success. 15 With vaginal native tissue repair, the success is 16 approximately 80 percent; and with the mesh-augmented 17 repair, it's approximately 90 percent. 18 Using the mesh for abdominal 19 sacrocolpopexy, there's an approximate 10 percent 20 risk of a vaginal mesh exposure, the majority of 21 which can be treated vaginally; but rarely an 22 intra-abdominal approach to deal with the mesh issue 23 will be necessary. And this is, again, for the 24 abdominal approach for abdominal sacrocolpopexy. 25 Q Okay. And if I heard you right initially,</p>

<p style="text-align: right;">Page 34</p> <p>1 Doctor, you always suggest that the primary surgery 2 with regard to pelvic organ prolapse be a native 3 tissue repair, correct? 4 A Currently, that's what I do, yes. 5 Q Okay. And how long has that been the case? 6 A For about the past three to four years. 7 Q Prior to that, did you suggest that mesh 8 augmentation would be primary? 9 A Prior to that in selected cases as per 10 suggestions by organizations such as the 11 International Urogynecology Association and the 12 American Urogynecological Society, I would discuss 13 the use of mesh for primary repairs under special 14 circumstances, such as women with poor connective 15 tissue who had very severe prolapse or had very 16 significant weakness of their pelvic floor muscles. 17 Q What has changed in the last three to four 18 years that has made you decide that native tissue 19 repair should be utilized as the primary augmentation 20 first? 21 A The litigation issue. I still strongly 22 believe that vaginal mesh augmentation is a very 23 viable option, but I don't want to expose myself to 24 possible litigation from using them. 25 Q Do you believe that mesh is the better</p>	<p style="text-align: right;">Page 36</p> <p>1 that native tissue repair will work, whereas your 2 experience or read of the literature is that 3 90 percent of the time mesh augmentation will work? 4 A So when we classify -- I have to define 5 what you mean by "work." So when we talk about 6 80 versus 90 percent for the vaginal repair, it 7 doesn't mean that the patient has no prolapse. What 8 it means is that the prolapse if it does reoccur is 9 not symptomatic or bothersome and it is at or above 10 the hymen; and that for the abdominal approach using 11 mesh, that is at approximately 90 percent. 12 Q Okay. 13 A And if we talk about the vaginal approach 14 with mesh augmentation, it's best studied; and I only 15 used it -- or mainly use it in the anterior 16 compartment. And that in randomized trials, again, 17 the anterior augmentation with mesh, synthetic mesh, 18 has a higher chance of success than a native tissue 19 repair. 20 Q And if I understood your testimony 21 correctly, your only reasoning for not offering mesh 22 augmentation as the primary repair is due to concern 23 over litigation, correct? 24 A Offering it primary repair for special 25 cases where the prolapse is severe, meaning grade --</p>
<p style="text-align: right;">Page 35</p> <p>1 alternative under those circumstances? 2 MR. KOOPMANN: Object to form. 3 A I believe it is a viable alternative and 4 something that can be discussed with the patient, the 5 risk and the benefit profile, and it's up to the 6 patient and myself to decide what she would like 7 based on that risk-benefit profile. 8 Again, going back to what I had said 9 previously, when I counsel a patient who has 10 recurrent prolapse, we discuss that a vaginal native 11 tissue repair has a lower chance of success but has 12 less risks; and a mesh-augmented repair, whether it's 13 done vaginally or whether it's done abdominally, has 14 a higher chance of success, but has more 15 complications. 16 So they have to choose between higher 17 chance of success versus the complications, which 18 primarily would be the mesh complications with the 19 vaginal route, and abdominally would include the 20 abdominal approach. 21 Q (By Mr. Schnieders) Okay. And so we're 22 all tracking, Doctor, if a device fails -- sorry. 23 Strike that. 24 In other words, we're tracking with regard 25 to success, you're saying that 80 percent of the time</p>	<p style="text-align: right;">Page 37</p> <p>1 advanced Grade 3 -- I'm sorry -- Stage 3 to Stage 4 2 with weak pelvic floor muscles or connective tissue 3 disorder. 4 Q I'll strike that based upon 5 nonresponsiveness. 6 Doctor, as I understand your testimony, 7 your only reason for not offering mesh augmentation 8 as a primary repair for pelvic organ prolapse is due 9 to concern over litigation, correct? 10 MR. KOOPMANN: Object to the form. 11 A So going back to my previous answer, in 12 those special circumstances, yes. 13 Q (By Mr. Schnieders) Now, what we've marked 14 as Exhibit 2 here, Doctor, your curriculum vitae 15 is -- it's listed at 2015. 16 Is this up to date? 17 A I'm looking at it. No. I have a few other 18 publications. 19 Q Okay. Do you have a more current version 20 of this CV? 21 A I do. 22 Q I'd ask that you provide that to counsel, 23 and then -- 24 MR. SCHNIEDERS: Barry, if you could 25 provide that to me, I'd appreciate it.</p>

<p style="text-align: right;">Page 38</p> <p>1 MR. KOOPMANN: Sure. We will.</p> <p>2 Q (By Mr. Schnieders) Doctor, I'll ask that</p> <p>3 you just generally, then -- not based on this CV --</p> <p>4 have you ever published any peer-reviewed literature</p> <p>5 regarding the TVT?</p> <p>6 A I have not.</p> <p>7 Q Okay. Have you ever published any peer</p> <p>8 review literature regarding suburethral slings?</p> <p>9 A No.</p> <p>10 Q Have you ever published any peer review</p> <p>11 literature regarding pelvic organ prolapse?</p> <p>12 A So let me go back to that. I did recently</p> <p>13 publish -- and this is something that's not on</p> <p>14 there -- it was a survey of the practice patterns of</p> <p>15 the International Urogynecology Association members</p> <p>16 as to their practice patterns for the treatment of</p> <p>17 prolapse and stress urinary incontinence, and in that</p> <p>18 case -- I mean in that instant, I did report on the</p> <p>19 use of the suburethral slings.</p> <p>20 Q Okay. A couple questions. Is that a peer</p> <p>21 review -- peer-reviewed publication we are discussing</p> <p>22 right now?</p> <p>23 A Yes, it is. It's the International</p> <p>24 Urogynecology Journal.</p> <p>25 Q Would that be the IUGA that we're talking</p>	<p style="text-align: right;">Page 40</p> <p>1 Q And then ACOG, that's the American College</p> <p>2 you referred to, correct?</p> <p>3 A Yes.</p> <p>4 Q Okay. And are those the four societies,</p> <p>5 the current societies that you belong to?</p> <p>6 A Yes.</p> <p>7 Q Are you an officer in any of those</p> <p>8 societies?</p> <p>9 A No.</p> <p>10 Q Would you say that you're more involved</p> <p>11 with IUGA, or I-U-G-A, than the other societies?</p> <p>12 A Yes.</p> <p>13 Q Okay. Describe your involvement with IUGA</p> <p>14 for us.</p> <p>15 A So for the past -- now I'm past-chairperson</p> <p>16 of the research and development committee. So prior</p> <p>17 to two thousand and -- well, my chairpersonship</p> <p>18 lasted for five years, and I completed that in 2016.</p> <p>19 Q Okay. And what was the research and</p> <p>20 development committee of IUGA?</p> <p>21 A Do you mean what were their functions?</p> <p>22 Q Yeah. What is the function of that</p> <p>23 committee?</p> <p>24 A So one of the main functions was to review</p> <p>25 research grant applications and then to award the</p>
<p style="text-align: right;">Page 39</p> <p>1 about?</p> <p>2 A No. It's IUGA (pronouncing).</p> <p>3 Q Okay.</p> <p>4 A I-U-G-A.</p> <p>5 Q IUGA (pronouncing) or I-U-G-A. And is that</p> <p>6 a professional society that you belong to?</p> <p>7 A Yes, it is.</p> <p>8 Q And, in fact, Doctor, have you been a</p> <p>9 member of the research and development team for IUGA?</p> <p>10 A Yes, I have.</p> <p>11 Q Okay. What other professional societies</p> <p>12 are you currently a member of?</p> <p>13 A The American Urogynecology Society.</p> <p>14 Q Any others, Doctor? I don't want to jump</p> <p>15 on your answer if you've not completed it.</p> <p>16 A No. I'm also a member of the American</p> <p>17 College of Obstetrics and Gynecology and the Greater</p> <p>18 Medical -- I'm sorry -- the Greater Albuquerque</p> <p>19 Medical Association and the Society of Gynecological</p> <p>20 Surgeons. I don't think I'm current on my dues yet</p> <p>21 this year for that one.</p> <p>22 Q Okay. And as a general proposition, AUGS</p> <p>23 is what we often refer to as the American</p> <p>24 Urogynecologic Study, correct?</p> <p>25 A Yes.</p>	<p style="text-align: right;">Page 41</p> <p>1 grants based on the review by the entire committee.</p> <p>2 We also did research projects, and then we</p> <p>3 also did some literature reviews and wrote summary</p> <p>4 articles about them.</p> <p>5 Also developed a mentorship program to</p> <p>6 mentor less experienced researchers within IUGA as</p> <p>7 well as people in training such as fellows and</p> <p>8 residents. Helped to develop what's now an</p> <p>9 e-learning program.</p> <p>10 Also, looked into the development of an</p> <p>11 international database. We revised the sexual</p> <p>12 function questionnaire, and I was -- I personally was</p> <p>13 in charge of the international translation and</p> <p>14 validation project, where that revised questionnaire</p> <p>15 was translated into multiple different languages and</p> <p>16 then validated.</p> <p>17 That's a general overview.</p> <p>18 Q Thank you. And that sexual function</p> <p>19 questionnaire, Doctor, was that something that was</p> <p>20 funded by IUGA?</p> <p>21 A That revision project was, yes.</p> <p>22 Q Okay. The initial development of the</p> <p>23 questionnaire, was that funded by IUGA?</p> <p>24 A No, it was not.</p> <p>25 Q Okay. What was that funded by?</p>

<p style="text-align: right;">Page 42</p> <p>1 A I don't think it received any funding.</p> <p>2 Q Okay.</p> <p>3 A I mean, it was funded by the University of</p> <p>4 New Mexico when we -- you know, when we developed it.</p> <p>5 We might have had it -- I'm sorry. We might have had</p> <p>6 a grant from the clinical research group at the</p> <p>7 University of New Mexico, but I don't recall.</p> <p>8 Q And, Doctor, with regard to the grants</p> <p>9 process that you mentioned where research and</p> <p>10 development committee would be in charge of awarding</p> <p>11 grants; is that right --</p> <p>12 A Yes.</p> <p>13 Q -- where did those grants come from?</p> <p>14 A They came from IUGA.</p> <p>15 Q Okay. And where did IUGA receive the funds</p> <p>16 for those grants?</p> <p>17 A I'm not sure. I wasn't part of the</p> <p>18 executive committee, so I do not know where the funds</p> <p>19 came from.</p> <p>20 Q Okay. All right. Backtracking a little</p> <p>21 bit on your publications, Doctor, because we've got</p> <p>22 several pages here, and then it sounds like there's</p> <p>23 some additional publications that you had since the</p> <p>24 2015 version that we have as Exhibit 2.</p> <p>25 I think we established that you have never</p>	<p style="text-align: right;">Page 44</p> <p>1 fascia lata; is that correct?</p> <p>2 A Yes. I was just going to bring that up.</p> <p>3 So I have published on the use of cadaveric fascia</p> <p>4 lata and the suburethral sling procedures, and the</p> <p>5 association with the use of the cadaveric fascia lata</p> <p>6 and erosion or exposure into the vagina with the</p> <p>7 cadaveric fascia lata with both abdominal</p> <p>8 sacrocolpopexy as well as the suburethral sling.</p> <p>9 Q Any other peer-reviewed publications that</p> <p>10 you've authored or been a co-author of that have</p> <p>11 bearing on your opinions here today?</p> <p>12 A I'm just going to take a quick look at</p> <p>13 this.</p> <p>14 So something that would also be part of my</p> <p>15 experience is the randomized trial that compared the</p> <p>16 anterior colporrhaphy Kelly-Kennedy plication to the</p> <p>17 Burch retropubic urethropexy. So that is something</p> <p>18 that I utilized in forming my opinions.</p> <p>19 Q Okay. And that's fair. Anything else?</p> <p>20 A So I have also authored -- but this is not</p> <p>21 a peer-reviewed journal -- the Surgical Treatment of</p> <p>22 General Stress Urinary Incontinence in the Female</p> <p>23 Patient.</p> <p>24 Q Anything else, Doctor?</p> <p>25 A So there's also another article here, which</p>
<p style="text-align: right;">Page 43</p> <p>1 published anything regarding transvaginal mesh; is</p> <p>2 that correct?</p> <p>3 A Yes.</p> <p>4 Q Okay. And that includes suburethral slings</p> <p>5 and POP kits, correct?</p> <p>6 A Yes.</p> <p>7 Q Have you ever published on stress urinary</p> <p>8 incontinence?</p> <p>9 A Not specifically stress urinary</p> <p>10 incontinence, but I have published on sexual function</p> <p>11 in women before and after surgery for prolapse and</p> <p>12 incontinence, and I've published on sexual function</p> <p>13 in women with and without incontinence and prolapse.</p> <p>14 Q Any other publications with regard to that</p> <p>15 topic?</p> <p>16 A For stress incontinence, we also published</p> <p>17 on the use of the Burch procedure in obese women,</p> <p>18 whether or not there was increased complications.</p> <p>19 Q Any other publication?</p> <p>20 A About?</p> <p>21 Q About the topic we're talking about, stress</p> <p>22 urinary incontinence.</p> <p>23 A Not in peer-reviewed journals.</p> <p>24 Q And then I believe that in the reliance</p> <p>25 list you have one article that regards cadaveric</p>	<p style="text-align: right;">Page 45</p> <p>1 is Predictors of Urinary Tension after Pelvic</p> <p>2 Reconstructive Surgery and Stress Urinary</p> <p>3 Incontinence Surgery.</p> <p>4 Q Any others?</p> <p>5 A No.</p> <p>6 Q Do you have any pending articles or</p> <p>7 research that you intend to publish in the next</p> <p>8 couple years regarding these topics?</p> <p>9 A No, I do not.</p> <p>10 Q Doctor, have you ever conducted a</p> <p>11 randomized controlled trial?</p> <p>12 A Yes.</p> <p>13 Q Okay. What randomized controlled trials</p> <p>14 have you conducted?</p> <p>15 A So the one that I mentioned that compared</p> <p>16 the Burch retropubic urethropexy to the Kelly-Kennedy</p> <p>17 plication for the surgical treatment of stress</p> <p>18 urinary incontinence.</p> <p>19 And then we also conducted a randomized</p> <p>20 trial that compared the surgical treatment of</p> <p>21 obstetrical anal sphincter laceration third and</p> <p>22 fourth degree.</p> <p>23 And then we also conducted a randomized</p> <p>24 placebo-controlled trial that compared antibiotic to</p> <p>25 no antibiotic for the prevention of post-operative</p>

<p style="text-align: right;">Page 46</p> <p>1 urinary tract infection in women undergoing 2 suprapubic catheterization following prolapse and 3 urinary incontinence surgery. 4 Q Have you ever formed -- 5 A Wait. 6 Q -- a clinical trial -- 7 A One more. I also performed -- 8 Q Are you not finished, Doctor? I apologize. 9 A No, that's okay. I also -- we also 10 performed a randomized trial, again, placebo 11 controlled, evaluating postoperative pain relief 12 following laparoscopic tubal sterilization using the 13 Falope-Ring, and it was a comparison between the use 14 of ketorolac; bupivacaine, a local anesthetic; and 15 placebo. 16 Q Okay. Are you finished with your answer? 17 I don't want to jump in. 18 A I am. I'm sorry. It's really hard because 19 we're not face-to-face. I apologize. 20 Q I get it. So, Doctor, just to confirm, 21 you've never performed a study on transvaginal mesh, 22 fair? 23 A I have not. 24 Q You've never published anything related to 25 transvaginal mesh, correct?</p>	<p style="text-align: right;">Page 48</p> <p>1 same mesh, isn't it, Doctor? 2 MR. KOOPMANN: Object to form. 3 A I would have to review the pore size of the 4 Perigee mesh to be able to answer that for sure. 5 Q (By Mr. Schnieders) Sitting here today, 6 you don't know the answer to that question? 7 A The pore size of the Perigee mesh? No, I 8 do not. 9 Q Do you know if the mesh that's used in a 10 TVT is the same as mesh used by other manufacturers 11 in suburethral slings? 12 A It can't be the same -- in my 13 understanding, it can't be the same otherwise because 14 it's protected by patent laws. So there are going to 15 be some differences based on how they develop the 16 product. 17 Q Sitting here today, do you have any 18 appreciation for the difference between the mesh used 19 in a TVT and the mesh used for Boston 20 Scientific's suburethral slings, for instance? 21 A Yes. 22 Q What are the differences? 23 A So the pore size of the TVT sling is 24 approximately 1,379 microns, whereas the pore size 25 for the Boston Scientific is approximately 1,200.</p>
<p style="text-align: right;">Page 47</p> <p>1 A I have not. 2 Q And, Doctor, going back to what we were 3 discussing briefly earlier with regard to mesh 4 augmentation for pelvic organ prolapse, is the mesh 5 used in that surgery the same type of mesh as that 6 used in the TVT? 7 MR. KOOPMANN: Object to form. 8 A It's a polypropylene mesh. So in that 9 regards, the TVT sling is a polypropylene mesh as 10 well. 11 Q (By Mr. Schnieders) Sitting here today, do 12 you know if the mesh that's used in a TVT sling is 13 the same or different from the mesh that's used to 14 repair pelvic organ prolapse? 15 A It's going to be different in that it's 16 larger and the way that it is put together. For 17 example, the Perigee has the arms that have a 18 little -- for lack of a better word, I will say 19 "button" -- and I put that in parentheses -- that has 20 a suture attached to it. 21 So the mesh that I used for prolapse repair 22 vaginally is different than the mesh that's used for 23 the TVT sling. 24 Q But the mesh itself with regard to pore 25 size and everything else that goes into that is the</p>	<p style="text-align: right;">Page 49</p> <p>1 They're both about -- the weight is -- they are both 2 approximately 100 grams per meter squared. So 3 they're very similar. There is also some slight 4 differences as far as other characteristics of the 5 mesh, but they're going to be very similar. 6 Q Okay. And same thing with regard to TVT 7 mesh versus an American Medical Systems product. 8 Are they the same mesh or different? 9 A Well, they are composed of polypropylene, 10 but there are going to be differences in their exact 11 weight and other characteristics. 12 Q And -- 13 A They're not exactly the same. 14 Q What are the differences between their 15 weight, for instance? 16 A So with the other one that you described, I 17 would have to look it up to tell you for sure what 18 the different weights are. 19 Q And do you know the different weights of 20 any of the Boston Scientific suburethral slings? 21 A Didn't I just talk about the Boston 22 Scientific? 23 Q I don't recall you saying anything about 24 the weight. 25 A I said it was 100 grams per meter squared.</p>

<p style="text-align: right;">Page 50</p> <p>1 Q Okay. Are you familiar with the Bard 2 midurethral slings? 3 A The only slings that I have used are the 4 Johnson & Johnson and the Boston Scientific. 5 Q Okay. 6 A So I have not utilized the others. 7 Q But sitting here today, you would 8 acknowledge that there are differences between the 9 mesh used in Boston Scientific slings and the TVT 10 slings, correct? 11 A Very minimal differences, but there are 12 differences, yes. 13 Q Okay. And there are differences between 14 the TVT sling and the mesh used in American Medical 15 System slings, correct? 16 MR. KOOPMANN: Object to form. 17 A So, again, what I've said previously is 18 that there are going to be slight variations in how 19 the meshes are made, but they're all composed of 20 polypropylene, and they are all around the same 21 weight, and they have similar pore sizes. 22 Q (By Mr. Schnieders) So when you say 23 "similar pore sizes," for instance, in the Monarc -- 24 which I believe you've used before, correct? 25 A I've used several times; and I haven't used</p>	<p style="text-align: right;">Page 52</p> <p>1 Q And what are you looking at for that? 2 A The Moalli article. 3 Q Okay. And is that something that you 4 considered in forming your opinions today? 5 A The Moalli article? 6 Q No. The pore size of the Monarc mesh. 7 A I'm not forming an opinion on the Monarc 8 mesh. I'm forming an opinion on the TVT sling. 9 Q Is it fair to say that the pore size of the 10 Monarc mesh did not factor into your opinion today, 11 correct? 12 A Correct. 13 Q Okay. Same question with regard to Bard 14 and their slings; for instance, the ALIGN. Are you 15 aware of the pore size of the mesh used for the 16 ALIGN? 17 A So looking at this article, it's 1,160 18 microns. 19 Q Okay. And until you looked at that article 20 just now, that's not something you fully appreciated, 21 fair? 22 MR. KOOPMANN: Object to form. 23 A It's not something that I researched or 24 would have researched because I do not use that 25 product.</p>
<p style="text-align: right;">Page 51</p> <p>1 the Monarc in, I would say, eight or nine years. 2 Q Okay. So what's the pore size for the 3 Monarc? 4 A Off the top of my head, I can't tell you 5 the pore size of the Monarc. I know it is considered 6 macroporous according to the Amid classification, but 7 the exact pore size of Monarc, I can't tell you. 8 Q Okay. Well, I'm happy if you need to refer 9 to your materials, you can go ahead and do that. 10 (The deponent is reviewing documents.) 11 Q (By Mr. Schnieders) And I apologize if I'm 12 interrupting, but I assume you're looking through 13 your materials right now; is that right? 14 A Yes. 15 (The deponent is reviewing documents.) 16 A So what is your question for me? 17 Q (By Mr. Schnieders) What is the pore size 18 of the mesh used for the Monarc? 19 A Can you tell me who makes the Monarc? 20 Q Do you know who makes the Monarc, Doctor? 21 A No, I do not. When I use a device, I use 22 the device based on the characteristics of the 23 device, and not the company. 24 Q Okay. It's American Medical Systems. 25 A Pore size is 1,000 microns.</p>	<p style="text-align: right;">Page 53</p> <p>1 Q (By Mr. Schnieders) Okay. And so it's 2 fair to say that the pore size of the mesh used in 3 the ALIGN is not something that factored into your 4 opinions here today, correct? 5 A Correct. 6 Q And I could go through the list, but I 7 assume your answer is going to be the same. The pore 8 size of any mesh used in a midurethral sling that was 9 not the TVT is not something that's factored into 10 your opinions, fair? 11 MR. KOOPMANN: Object to form. 12 A Can you repeat that, please. 13 Q (By Mr. Schnieders) Sure. Well, I'll ask 14 it -- because there was an objection, I'll ask it 15 this way: Doctor, when you formed your opinions with 16 regard to the TVT that you're here to offer today, 17 the only pore size that factored into those opinions 18 was the pore size of the TVT mesh and none of the 19 other suburethral slings, fair? 20 A So in forming my opinion about the TVT 21 sling, I looked at the pore size and, again, based on 22 the admin article, and so the pore size of the TVT 23 sling is the optimal pore size. I did not look at 24 the pore size of other slings in forming my opinion. 25 Q Because the pore size of the other meshes</p>

<p style="text-align: right;">Page 54</p> <p>1 and other slings is irrelevant to your opinion, fair?</p> <p>2 A Yes, because I'm not offering an opinion on</p> <p>3 the other slings, just on the TVT.</p> <p>4 Q Okay. Doctor, we've marked as Exhibit 4 --</p> <p>5 and we'll go here on a break in just one second</p> <p>6 because I think we've been going about an hour -- but</p> <p>7 marked as Exhibit 4, your expert report that you're</p> <p>8 offering regarding your general TVT opinions; is that</p> <p>9 correct?</p> <p>10 A Yes, if you say so. Let me look to see</p> <p>11 which number it is. Yes, it is No. 4.</p> <p>12 Q Okay. And is it fair to say that report</p> <p>13 that we've marked as Exhibit 4 encompasses all of</p> <p>14 your opinions with regard to the TVT that you're here</p> <p>15 today to offer?</p> <p>16 A Yes.</p> <p>17 Q All right.</p> <p>18 MR. SCHNIEDERS: Why don't we -- why don't</p> <p>19 we take a quick break because I think we've been</p> <p>20 going for a little bit over an hour at this point.</p> <p>21 MR. KOOPMANN: Okay.</p> <p>22 (Recess from 10:22 a.m. to 10:32 a.m.)</p> <p>23 Q (By Mr. Schnieders) All right, Doctor,</p> <p>24 we're back on the record after a short break.</p> <p>25 Did you review any documents during the</p>	<p style="text-align: right;">Page 56</p> <p>1 would say as well. In addition to that, my</p> <p>2 continuing medical education, which is not reflected</p> <p>3 in all of the materials that are here today, which</p> <p>4 includes mostly yearly attendance at AUGS, IUGA, and</p> <p>5 SGS, and listening to presentations about this</p> <p>6 subject matter. And so those may not all be in my</p> <p>7 supplemental list.</p> <p>8 Q And so just so we're clear, there have been</p> <p>9 continuing medical education programs at AUGS, IUGA,</p> <p>10 and ACOG that you would have also attended with</p> <p>11 regard to transvaginal mesh?</p> <p>12 A Well, SGS, yes. I didn't say ACOG.</p> <p>13 Q I apologize.</p> <p>14 A That's okay. I don't typically go to those</p> <p>15 meetings.</p> <p>16 Q Okay. But there would have been continuing</p> <p>17 medical education regarding transvaginal mesh that</p> <p>18 you would have attended at IUGA, AUGS, and SGS,</p> <p>19 correct?</p> <p>20 A Yes.</p> <p>21 Q All right. Doctor, earlier we briefly</p> <p>22 mentioned a sexual function questionnaire that I</p> <p>23 believe you had a hand in creating; is that correct?</p> <p>24 A Yes.</p> <p>25 Q And can you tell me just briefly what that</p>
<p style="text-align: right;">Page 55</p> <p>1 break?</p> <p>2 A I did not.</p> <p>3 Q Okay. Before the break, we were talking</p> <p>4 about your reliance list and your report, and I think</p> <p>5 we've already talked about your report and the fact</p> <p>6 that it encompasses all of your opinions, correct?</p> <p>7 A Yes.</p> <p>8 Q And I realize that you have a supplemental</p> <p>9 reliance list that we've marked as Exhibit 9. And</p> <p>10 then I believe there's also some additional materials</p> <p>11 that may not be reflected in that, that we've marked</p> <p>12 as Exhibit 8.</p> <p>13 But between Exhibit 8 and Exhibit 9, have</p> <p>14 we -- do we have all of the documents that you're</p> <p>15 relying upon to make your opinions in this case?</p> <p>16 A All the documents, yes.</p> <p>17 Q Okay. And I'm assuming that you're saying</p> <p>18 it that way because you're also relying upon your</p> <p>19 experience, correct?</p> <p>20 A Yes.</p> <p>21 Q Anything else?</p> <p>22 A Anything else?</p> <p>23 Q That you're relying upon to make your</p> <p>24 opinions as we sit here today?</p> <p>25 A Well, my experience and my training, I</p>	<p style="text-align: right;">Page 57</p> <p>1 sexual function questionnaire is?</p> <p>2 A So it's called the Pelvic Organ Prolapse in</p> <p>3 Urinary Incontinence Sexual Function Questionnaire,</p> <p>4 or PISQ for short, P-I-S-Q, and the long form</p> <p>5 contains 31 questions and it assesses sexual</p> <p>6 function, specifically in women with these pelvic</p> <p>7 floor disorders. There's also a short form that</p> <p>8 contains 12 questions.</p> <p>9 Q Okay. And that's for use both in the</p> <p>10 instance of pelvic organ prolapse and in the instance</p> <p>11 of stress incontinence; is that correct?</p> <p>12 A Urinary incontinence. So not just stress</p> <p>13 incontinence; in all forms of incontinence. It's</p> <p>14 also been validated for use in the general population</p> <p>15 as well.</p> <p>16 Q Gotcha. Okay. And I appreciate the</p> <p>17 correction.</p> <p>18 Is this a questionnaire that you use in</p> <p>19 your clinical practice?</p> <p>20 A It's -- I use it -- we have used it mostly</p> <p>21 for research. So I do not use this specific</p> <p>22 questionnaire in my clinical practice.</p> <p>23 Q Okay. When you're evaluating a woman for a</p> <p>24 sexual function or sexual disorder function, what do</p> <p>25 you use in your clinical practice?</p>

<p style="text-align: right;">Page 58</p> <p>1 A So I have a questionnaire that I use that 2 encompasses prolapse urinary incontinence and sexual 3 function. And that questionnaire contains questions 4 about -- that are taken from the PISQ. So, for 5 example, it says: Are you sexually active? And the 6 answer is yes and no. And if not, is it because 7 you're without a partner? And then: How often does 8 pain interfere with your sexual activity? How often 9 does prolapse interfere with your sexual activity? 10 And how often does urinary incontinence interfere 11 with your sexual activity? 12 So what that questionnaire does is it opens 13 up the discussion for me with the patient as to what 14 is going on. And there is some research to back this 15 up that -- and it's a questionnaire by Plouffe, 16 P-l-o-u-f-f-e, that says that three simple questions: 17 Are you sexually active? Are you having any 18 problems? and, Are you having pain with intercourse? 19 are as effective in opening up the discussion and 20 dialog about sexual function as a full-length 21 interview. 22 So that is why I have chosen to address 23 sexual function problems in this way, and then 24 talking to a woman more about it when a problem is 25 identified.</p>	<p style="text-align: right;">Page 60</p> <p>1 wanting to slow your practice down a bit? 2 A It's a long story. My husband was supposed 3 to be transferred for his work to Los Angeles, and so 4 we put our home on the market. And our home sold 5 very quickly, much more quickly than we had thought. 6 And in between the time that our house sold and it 7 closed, he wasn't transferred to Los Angeles, but 8 there's still the potential that he may be 9 transferred to Los Angeles. So we didn't know what 10 to do. 11 We had a home here in Telluride that is our 12 retirement home. So we put everything into storage, 13 and I'm currently in Albuquerque -- I mean currently 14 in Telluride and commuting back to Albuquerque for 15 the time being until I know what happens in the 16 future. 17 Q And I appreciate that, and I don't want to 18 get into your personal life; that's not my intention. 19 I just basically want to know: Is it your intention 20 to continue working full-time; or are you planning on 21 some sort of a slowdown in your work, ultimately, 22 when this is all cleared? 23 A So I am not sure what's happening at this 24 point in time, but more than likely a slowdown. 25 Q Okay. All right. Doctor, I believe we've</p>
<p style="text-align: right;">Page 59</p> <p>1 Q Thank you. 2 Doctor, sitting here today, this deposition 3 is being conducted in Telluride, Colorado; is that 4 correct? 5 A Yes. 6 Q Okay. And your private practice is in 7 Albuquerque, right? 8 A Yes. 9 Q And so it begs the question: What brings 10 us to Telluride for this deposition? 11 A So currently I'm living here and -- as of 12 December the 17th -- and traveling to Albuquerque to 13 work there. 14 Q Okay. So currently with your clinical 15 practice, you are commuting to Albuquerque weekly? 16 A I go once a month for an entire week. 17 Q Okay. And then you'll see patients for an 18 entire week and then go back to Telluride; is that 19 right? 20 A Yes. 21 Q Okay. So currently your current practice 22 is to see patients approximately one week every 23 month; and that's when you see them, right? 24 A Yes. 25 Q Okay. And is that just representative of</p>	<p style="text-align: right;">Page 61</p> <p>1 established previously that the suburethral sling 2 that you use in practice currently is the TVT, 3 correct? 4 A I am doing a TVT sling. I am not using the 5 Johnson & Johnson currently. 6 Q Okay. What is the current sling that you 7 use? 8 A The Boston Scientific. 9 Q And do you know which of the Boston 10 Scientific slings you're using? 11 A Yes. It's the Advantage Fit. 12 Q Any particular reason you're using that 13 sling and not a Johnson & Johnson product? 14 A It was a monetary decision by the hospital 15 because it was cheaper for them to get the Advantage 16 Fit than the TVT. 17 Q When is the last time that you utilized an 18 Ethicon TVT yourself? 19 A It would have to be several years ago. I 20 can't give you the exact date. 21 Q Do you have any estimate of the amount of 22 Ethicon TVTs you've implanted? 23 A So I've implanted over 2,000 retropubic -- 24 and I'm just going to use "TVT slings" to encompass 25 both types, both manufacturers. And I would say</p>

<p style="text-align: right;">Page 62</p> <p>1 about two-thirds of them, somewhere between one-half 2 and two-thirds, would be the Ethicon product. And 3 yeah, one-half to two-thirds. 4 Q And when did you first start regularly 5 using suburethral mesh slings? 6 A So prior to the Hilton and Ward study, way 7 back when, I did use some Gore-Tex slings. That 8 would have been many years ago when I was at the 9 University of New Mexico after I completed my 10 fellowship. 11 And I stopped using those slings when it 12 was discovered -- not discovered, but that the pore 13 size -- it was microporous and it was 14 multifilamentous, and there's the Weinberger and 15 Ostergard article that stated -- that demonstrated 16 there was a very high risk of complications. So I 17 stopped using mesh for slings following that. So 18 that would have been in probably mid-1990s. 19 I then started using -- we talk about 20 synthetic slings because I did use some cadaveric 21 fascia, and, you know, those -- I don't know if you 22 would consider them mesh or not, but synthetic mesh I 23 started using in 2004. 24 Q And just so we're tracking, I would not 25 consider cadaveric to be mesh --</p>	<p style="text-align: right;">Page 64</p> <p>1 A Yes. Well, the TVT sling because I had 2 used the synthetic mesh for the Gore-Tex many years 3 before, but had abandoned that because of the high 4 risk of complications. 5 Q That's fair, and just so we're tracking 6 again, when I'm talking about synthetic mesh, I'm 7 talking about what we're here to talk about today, 8 which is what is used in the TVT, the polypropylene, 9 okay? 10 A Perfect. Okay. 11 Q And specific to polypropylene mesh, it 12 would be the Hilton study that led you to begin to 13 use polypropylene mesh in slings, correct? 14 A Yes. 15 Q Doctor, have you kept track of the number 16 of either Boston Scientific or Ethicon slings that 17 you've implanted? 18 A I have not. 19 Q Okay. And it follows that you -- since you 20 have not kept track of them, you don't have any sense 21 of the complication rates of those, do you? 22 MR. KOOPMANN: Object to form. 23 A So I don't have a database with respect to 24 complications, but I'm in a fairly unique situation 25 in that there's only myself and the university or my</p>
<p style="text-align: right;">Page 63</p> <p>1 A Perfect. 2 Q -- or synthetic to be mesh, okay? 3 A Okay. 4 Q So 2004. And what was it about 2004 that 5 led you to begin using synthetic mesh? 6 A So there was -- I was very aware of the TVT 7 sling and that, you know, the first publications were 8 in the late 1990s, but I didn't start using it until 9 the Hilton and Ward study came out that 10 demonstrated -- which is a randomized controlled 11 trial that compared the Burch retropubic urethropey 12 to -- 13 (Reporter requested clarification.) 14 A -- randomized controlled trial that 15 compared the Burch retropubic urethropey to the TVT 16 sling. 17 So the initial publication for that came 18 out a couple of years before, but I waited to use the 19 sling until the Hilton and Ward had the two-year 20 follow-up data and continued to show the same 21 results. 22 Q (By Mr.Schnieders) Okay. So, 23 specifically, it was the publication of that study 24 that led to you deciding to use synthetic mesh in 25 slings, correct?</p>	<p style="text-align: right;">Page 65</p> <p>1 practice and the university in the entire state of 2 New Mexico who are urogynecologists. 3 There are a few urologists out in the 4 community, but they do not do a lot of female 5 urology. And so a patient would have to travel far 6 in order to see somebody else if they had a 7 complication. 8 Q (By Mr. Schnieders) But, again, fair to 9 say that you have not kept track of this in any 10 systematic way, right? 11 A Correct. 12 Q Doctor, do you know the difference between 13 mechanically cut mesh and laser cut mesh? 14 A What do you mean by "do I know the 15 difference"? 16 Can you clarify what you mean by that. 17 Q Well, first of all, for the jury's benefit, 18 what does it mean to be mechanically cut versus laser 19 cut for mesh? 20 A So "mechanically cut" means it was cut 21 using a machine, if as you were to say kind of like 22 using a knife or a scissors. And laser is using a 23 laser. 24 Q And for the purposes of your opinion that 25 you're offering here today, is there any distinction</p>

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1 to be made between whether mesh is cut by a laser or
2 cut mechanically?
3 MR. KOOPMANN: Object to form.
4 A So there is no difference clinically in the
5 mechanically cut versus the laser cut.
6 Q (By Mr. Schnieders) And is it your opinion
7 that there is no difference with regard to risk
8 vis-a-vis mechanically cut or machine cut -- or laser
9 cut?
10 MR. KOOPMANN: Object to form.
11 A There are no clinical studies that show any
12 difference in risk between laser cut versus
13 mechanical cut.
14 Q (By Mr. Schnieders) Are there any studies
15 that differentiate between laser cut and mechanically
16 cut?
17 A So there is one randomized trial that
18 compares the TVT, which is mechanical cut, to the
19 TVT -- I believe it's ABBREVO -- that is laser cut.
20 Q And when you say that there are no studies
21 that demonstrate a difference between laser cut and
22 mechanically cut, is that the study you're
23 specifically talking about?
24 A There are also multiple randomized
25 controlled trials -- although we do not know if the

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1 TVT was laser cut or mechanical cut -- that have been
2 published since the introduction of the laser cut.
3 And there are no difference in those outcomes as
4 compared to prior to the onset of the use of
5 mechanical cut -- or I'm sorry, laser cut.
6 Q So it's fair to say that your opinion that
7 laser cut has the same safety profile as mechanically
8 cut is based upon the fact that in your read of the
9 literature it's the same as it was before laser cut
10 came out?
11 A Yes.
12 Q Any other basis to state that laser cut and
13 mechanically cut are equivalent from a safety
14 perspective?
15 A From a safety perspective, no.
16 Q Doctor, is there a single, long-term,
17 randomized controlled trial for TVT with safety as a
18 primary end point?
19 A Yes, there is.
20 Q Can you please tell me what that is.
21 A I believe it's by Angli -- Angliotti
22 (pronounced).
23 Q Is that something that you reviewed in
24 your --
25 A Yes.

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1 Q -- preparation for drafting your expert
2 report here today?
3 A Yes.
4 Q And it's your testimony sitting here today
5 that that clinical trial has safety as the primary
6 end point?
7 A The -- I just pulled it here. Yeah, it's
8 Angiotti, Angiotti (pronounced). And I'll read you
9 from the --
10 MR. KOOPMANN: Angioli?
11 A Angioli. Sorry. I have to put my glasses
12 on.
13 So it says: Measurements. This five-year
14 study represents the extension of our original
15 randomized trial, which was designed to assess the
16 incidence of long-term complications (primary end
17 point) and successes (secondary end point) for both
18 techniques. And it's a randomized trial that
19 compares the tension-free vaginal tape versus the
20 transobturator suburethral tape.
21 Q (By Mr. Schnieders) Okay. So, again,
22 you're stating that that study is a single,
23 long-term, randomized controlled trial that had four
24 TVTs that had safety as a primary end point?
25 A It's five-year follow-up.

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1 Q And what do you consider to be long-term?
2 A Five years and greater.
3 Q Okay. The TVT is designed to be permanent,
4 correct?
5 A Yes.
6 Q And, typically, what's the age range of a
7 woman that's receiving a TVT?
8 A So the median age is going to be in the
9 50s.
10 Q So best estimate, we're dealing with women
11 that have at least 25 years left of life most likely,
12 correct?
13 A Yes.
14 Q But the long-term, randomized controlled
15 trial for TVT that has safety as a primary end point
16 that you're able to point to is a five-year study,
17 correct?
18 A There are studies with up to 17 years of
19 follow-up; and while safety was not the primary end
20 point, safety and adverse events were recorded.
21 Q The only single randomized controlled trial
22 for TVT that you're able to point to with safety as a
23 primary end point is the Angiotti (sic) study,
24 correct?
25 A With safety as the primary end point, but

<p style="text-align: right;">Page 70</p> <p>1 all trials track adverse outcomes.</p> <p>2 Q What's the significance of an end point,</p> <p>3 Doctor?</p> <p>4 A Primary versus secondary?</p> <p>5 Q Primary versus secondary, yes.</p> <p>6 A So it is all based on how the study is</p> <p>7 designed and the power analysis. So in order to</p> <p>8 ensure that there is a difference or no difference</p> <p>9 between two different types of interventions, a power</p> <p>10 analysis is performed, and that tells you how many</p> <p>11 subjects are needed in each group to ensure that you</p> <p>12 don't have a Type II or a beta error which indicates</p> <p>13 that finding no difference is due to lack of enough</p> <p>14 patients in your study versus finding no difference</p> <p>15 when you have enough patients in the study.</p> <p>16 And so a primary end point simply tells you</p> <p>17 that that study was based on that outcome to find</p> <p>18 that there was a difference or no difference.</p> <p>19 Secondary outcomes are also tracked, and it</p> <p>20 doesn't mean they're no less important. The study</p> <p>21 just was not powered to find a difference in those</p> <p>22 secondary end points.</p> <p>23 Q When you say "powered," for the jury's</p> <p>24 benefit, you mean it didn't have enough people in the</p> <p>25 study to track that, right?</p>	<p style="text-align: right;">Page 72</p> <p>1 Q And with regard to that 17-year study that</p> <p>2 you're referencing, have you performed a power</p> <p>3 analysis on that?</p> <p>4 A It's not a randomized trial. It is a</p> <p>5 cohort study, so there is no power analysis that can</p> <p>6 be performed.</p> <p>7 Q And what is the difference between a</p> <p>8 randomized clinical trial and a cohort study, for the</p> <p>9 jury's benefit?</p> <p>10 A So a randomized trial is where participants</p> <p>11 are randomized by chance to undergo one treatment</p> <p>12 versus another, and then those treatments are</p> <p>13 compared head-to-head, so to speak.</p> <p>14 A cohort study is where patients are simply</p> <p>15 followed forward in time.</p> <p>16 Q And do you recall how many people -- or I'm</p> <p>17 sorry, how many -- strike that.</p> <p>18 Do you recall how many women were involved</p> <p>19 in the study that you're referencing with the 17-year</p> <p>20 data?</p> <p>21 A So the original cohort I believe had 50</p> <p>22 women in it, and the 17-year follow-up I believe had</p> <p>23 somewhere between 35 and 40. I would have to pull it</p> <p>24 for me to be able to tell you the specific numbers.</p> <p>25 Q Okay. Now, are you aware of any other</p>
<p style="text-align: right;">Page 71</p> <p>1 A No. It just means that the primary end</p> <p>2 point is -- that the number of patients in that study</p> <p>3 were recruited to answer that specific question.</p> <p>4 Q So using your words, Doctor, the only study</p> <p>5 that was developed and recruited to answer the</p> <p>6 question of safety with regard to TVT is the Angiotti</p> <p>7 study that you're referring to, correct?</p> <p>8 MR. KOOPMANN: Object to form.</p> <p>9 A Looking at the TVT in comparison to other</p> <p>10 types of surgeries, yes.</p> <p>11 Q (By Mr. Schnieders) Now, you referenced a</p> <p>12 moment ago a 17-year study.</p> <p>13 Can you tell the jury which study you're</p> <p>14 referencing?</p> <p>15 A That's the Ulmsten study.</p> <p>16 Q The Ulmsten study. And do you know who</p> <p>17 Dr. Ulmsten is?</p> <p>18 A Yes, I do. And it's not Ulmsten, it's</p> <p>19 actually Nilsson, because I believe Ulmsten had</p> <p>20 passed away when that was written.</p> <p>21 Q And was Nilsson a colleague of Dr. Ulmsten?</p> <p>22 A Yes.</p> <p>23 Q Who is Dr. Ulmsten?</p> <p>24 A He is one of the inventors of the TVT</p> <p>25 sling.</p>	<p style="text-align: right;">Page 73</p> <p>1 studies that are long-term that are random -- I'm</p> <p>2 sorry, strike that.</p> <p>3 Are you aware of any studies longer than</p> <p>4 five years that are randomized clinical trials</p> <p>5 assessing TVT?</p> <p>6 A So randomized controlled trials with more</p> <p>7 than five years of follow-up.</p> <p>8 Q Correct.</p> <p>9 A I think at this point in time we just have</p> <p>10 five follow-up year data. With randomized controlled</p> <p>11 trials there's --</p> <p>12 Q -- market?</p> <p>13 A Pardon me?</p> <p>14 Q How long has the TVT been on the market,</p> <p>15 Doctor?</p> <p>16 A Since the mid 1990s. Late 1990s. I'm</p> <p>17 sorry.</p> <p>18 Q Taking the randomized trials out of it, are</p> <p>19 there any long-term studies with more than five-year</p> <p>20 follow-up with TVT?</p> <p>21 A I'm sorry. Can you repeat that?</p> <p>22 Q Yes. Taking -- so I'm stepping back from</p> <p>23 clinical trials or randomized clinical trials.</p> <p>24 A Uh-huh.</p> <p>25 Q Are there any long-term studies that have</p>

<p style="text-align: right;">Page 74</p> <p>1 more than five years of follow-up with regard to the 2 Ethicon TVT? 3 A Yes. There's 10-year data, and there is 4 also, I believe, 13-year data, and there's also like 5 11.5-year data. 6 Q Okay. And can you tell me what studies 7 you're referencing when you mention those years? 8 A So I would have to turn to my little 9 section here to be able to tell you that. 10 Q That's fine. 11 A So Tommaselli. I'm pulling my notebook 12 here. 13 (The deponent is reviewing documents.) 14 A Tincello. And then there is another one 15 that I can't tell you off the top of my head, which 16 is from an Asian author that has 10-year follow-up. 17 Q (By Mr. Schnieders) Are we done, Doctor? 18 I don't want to step on your answer, but it sounds 19 like you might be finished. 20 A Yes. I know there's a couple others. I 21 just can't tell you off the top of my head. 22 Q I'm happy for you to look at your report 23 and reference them if you need to. 24 (The deponent is reviewing documents.) 25 Q (By Mr. Schnieders) And not to be rude.</p>	<p style="text-align: right;">Page 76</p> <p>1 Q (By Mr. Schnieders) Okay. Well, here's 2 what I need to know, then, Doctor, because this is my 3 one time to depose you on these issues. So I think 4 we established earlier that between the supplemental 5 documents in that list that I was provided today that 6 has been marked as Exhibit 9, additionally some other 7 materials that are marked as Exhibit 8, and the 8 materials that were provided with your reliance list 9 and your actual report, which was issued on January 10 31st of 2017, that we had encompassed all of the 11 documents that you were relying upon; is that not the 12 case? 13 A So just to go back, I have a long list of 14 TVT long-term studies that I can read to you. And I 15 apologize that it wasn't readily at my fingertips, 16 but I -- 17 Q That's fair, Doctor, but I just ask that 18 you answer my question before we do that. 19 A Okay. Repeat that for me, please. 20 MR. SCHNIEDERS: Could you read that back, 21 please. 22 (Last question was read.) 23 Q (By Mr. Schnieders) Okay. All right. And 24 then, Doctor, could you tell me what you're reading 25 from to tell us what the long-term studies are that</p>
<p style="text-align: right;">Page 75</p> <p>1 I'm just making sure you're looking through your 2 report right now, Doctor. 3 A Yes. And I think it's in my supplementary 4 thing, my supplementary list. So I know there's 5 several more. I just don't have them off the top of 6 my head. It's not listed in my report, so it's not 7 readily available to me. 8 Q Okay. And it's fair to say that if 9 something is in your supplemental reliance list, that 10 it was something that you did not review or consider 11 prior to issuing your report, fair? 12 MR. KOOPMANN: Object to form. 13 A No, that's not correct. 14 Q (By Mr. Schnieders) Okay. Well, your 15 supplemental reliance list was only made available to 16 me today, whereas your original report you provided a 17 reliance list with it. So anything that's been added 18 since the time of your report has not been reviewed 19 and been a part of your opinions that you're offering 20 in this case, correct? 21 MR. KOOPMANN: Object to form. It 22 misstates the record. 23 A So just because it's not listed in my 24 general report doesn't mean that I did not consider 25 it.</p>	<p style="text-align: right;">Page 77</p> <p>1 you are referencing? 2 A So I'm referencing the TVT Medical 3 Literature Binder 1. 4 Q Okay. And in that binder, what are you 5 reading from? 6 A I'm reading from TVT long-term studies. So 7 there's the Ward and Hilton with five-year follow-up, 8 which, you know, we've established you want something 9 longer than that. There's Liapis, which is five- and 10 seven-year follow-up. There's Olsson Long-term 11 Efficacy of the TVT Procedure. There is -- I don't 12 know how to pronounce it -- Heinonen, Heinonen 13 (pronouncing), and I believe that has 10-year 14 follow-up. There's Svenningsen, which is 10-year 15 follow-up, and he has -- he or she has two 16 publications. Serati, which is 10-year follow-up. 17 We've talked about the Angioli article, 18 which is five-year follow-up. Aigmueller, which is 19 10-year follow-up. Cresswell. Schiotz, 10-year 20 follow-up. Jelovsek, which I believe is five-year 21 follow-up, and that's a randomized trial comparing 22 the laparoscopic Burch to the TVT. Seven-year 23 outcome from Song. Prien-Larsen, which I believe is 24 7 to 10 years. It's not listed in the title here. 25 Holmgren. Li, seven-year follow-up. Song, 13 years</p>

<p style="text-align: right;">Page 78</p> <p>1 follow-up. 2 I have to put my glasses on. I'm sorry. 3 Q That's okay. 4 A Shao, which is 57 months. It doesn't quite 5 meet our criteria. Seven-year follow-up, Reich. 6 Groutz, 10-year follow-up. Han. And then 7 Costantini, which is 100-month follow-up. 8 Q And I think you're done with your answer; 9 is that correct, Doctor? 10 A That is correct. 11 Q Okay. 12 A Go ahead. 13 Q No, Doctor, did you do an analysis of the 14 studies that actually tracked long-term pain? 15 A So I'm looking at the study which -- whose 16 primary outcome was looking at adverse events. So 17 that one -- I read that one about pain. The other 18 ones, I'm not sure how many of them tracked pain. 19 Q It's fair to say that you don't know how 20 many studies include long-term pain as a data point, 21 right? 22 A Correct. Looking at the meta-analysis, and 23 so the randomized trials that were included, some of 24 those randomized trials were included in the 25 meta-analysis and did track pain.</p>	<p style="text-align: right;">Page 80</p> <p>1 and pubovaginal. 2 And in reading those results there, I can't 3 tell you whether it was short-term or long-term, but 4 the typical way in which a study would be conducted 5 if they are reporting on dyspareunia, it's going to 6 be long-term. 7 It's not going to be in the immediate 8 postoperative period or in the short term. It's 9 going to be as long as they followed those patients 10 up. So the follow-up would be anywhere from one to 11 however many years the patients were followed up. 12 They're reporting on that last visit. 13 Q (By Mr. Schnieders) Doctor, you would 14 agree with me that you're speculating as to whether 15 or not that study is tracking long-term or 16 postoperative dyspareunia, correct? 17 MR. KOOPMANN: Object to form. 18 A What I would say is that the -- in having 19 conducted many randomized controlled trials, that you 20 don't report on your findings that are short-term. 21 You report on the last visit with the patient. So 22 it's not speculative. It is what would be considered 23 scientific protocol in reporting. 24 Q (By Mr. Schnieders) So I can be clear 25 here, Doctor, what are you pointing to, to say that</p>
<p style="text-align: right;">Page 79</p> <p>1 Q And you don't know how many of those 2 tracked pain as postoperative pain versus long-term 3 pain, meaning over six months, correct? 4 A I think it's pain at any end point. And 5 lots of studies do specifically address whether the 6 pain was more than six months or less than six months 7 or more than six weeks or greater than six weeks. 8 Q Sitting here today, Doctor, are you able to 9 name the studies that tracked pain, meaning over six 10 months? 11 A So if we look at the meta-analysis -- and I 12 would have to get out -- by Schimpf, that compiles 13 the studies that reviewed pain. 14 Q And does it differentiate between the 15 studies that tracked long-term pain versus 16 postoperative pain? 17 A I believe it does. 18 Q Okay. So your testimony here today is that 19 meta-analysis indicates which studies tracked 20 long-term pain versus postoperative pain, correct? 21 A I'm going to look at it right now to be 22 able to tell you. 23 (The deponent is reviewing a document.) 24 A So the Schimpf study just reports on 25 dyspareunia for the retropubic obturator mini-sling</p>	<p style="text-align: right;">Page 81</p> <p>1 that study is telling you that it's tracking the 2 long-term dyspareunia through the meta-analysis? 3 A What I am pointing to is the way in which 4 scientific studies are conducted. 5 Q Okay. So you're saying that it would be 6 unscientific to even report on short-term 7 dyspareunia? 8 A No. I'm not saying that. What I'm saying 9 is that when authors who conduct these studies report 10 on, for example, rates of dyspareunia, they're going 11 to report at the last follow-up visit. 12 Q And are you able to tell me when the last 13 follow-up visit was for each of those studies for 14 each of the individuals that reported dyspareunia? 15 A So I would have to pull each individual 16 study that is cited and -- to be able to tell you 17 that. 18 Q Okay. And absent pulling each of those 19 studies and reviewing that, you can't tell me, 20 correct? 21 A The -- from each of the individual studies, 22 the follow-up range anywhere from 2 to -- I think one 23 of the randomized trials has 10-year follow-up. 24 Q And I'm going to move to strike. That is 25 nonresponsive. I'm going to ask my question again.</p>

<p style="text-align: right;">Page 82</p> <p>1 Absent pulling each of those individual 2 studies, you can't tell me what the final follow-up 3 was for those cases reporting dyspareunia, fair? 4 A And I will say that these studies have, at 5 the minimum, two years follow-up, and at the maximum, 6 I believe, nine years follow-up. So they are going 7 to range from 2 to 10 years follow-up. 8 Q Okay. And you're extrapolating the Schimpf 9 study only reports on long-term dyspareunia; is that 10 correct? 11 A I am saying that the Schimpf study is 12 reporting on dyspareunia at the last follow-up visit. 13 Q And you know for a fact that the 14 dyspareunia has been reported at the last follow-up 15 visit in each of those studies because you have 16 reviewed that in forming your opinions that you're 17 offering right now, Doctor, correct? 18 A What I said was, I'm giving that opinion 19 based on how these studies are reported, that when 20 you report outcomes such as cure, you're going to 21 report it at the last visit. You're not going to 22 report that the patients -- you're not going to 23 report that the patients were cured 90 percent at two 24 years and have that be in the meta-analysis when 25 there's a full five years of follow-up. You're going</p>	<p style="text-align: right;">Page 84</p> <p>1 studies, and they analyze each of the studies. They 2 give different weights to the studies based on the 3 design of the study, and then they group -- or I'm 4 sorry, they statistically analyze the results and 5 come up with data based on the information from all 6 of the different studies. 7 Q But it's fair to say that the 8 information -- for instance, the reporting of 9 dyspareunia that we're referencing, comes from the 10 actual studies themselves, correct? 11 A So the information of dyspareunia does come 12 from multiple different studies, yes. 13 Q And so the information is only as good as 14 what was reported within that study, correct? 15 A Yes. 16 Q Doctor, what's the best type of study? 17 A Randomized controlled trial. 18 Q And if we're talking about the hierarchy of 19 studies, what would come next? 20 A So then you have cohort comparison studies, 21 where groups are compared but they're not randomized, 22 and that can be divided into those that are followed 23 forward in time versus those that are followed 24 backward in time. 25 And then, lastly, you have just plain ol'</p>
<p style="text-align: right;">Page 83</p> <p>1 to report your five-year follow-up data. So at that 2 last visit is when those complications or those 3 outcomes are going to be reported. 4 Q So, Doctor, just so I'm clear, you're 5 talking about a meta-analysis, correct? 6 A Correct. 7 Q And a meta-analysis is a grouping of many 8 different studies, correct? 9 A Yes. 10 Q All of which have different protocols, 11 correct? 12 A All of them are designed differently or 13 they could be designed similarly, yes. 14 Q But they have their own distinct protocols, 15 correct? 16 A Yes. 17 Q You're not aware of those protocols as you 18 sit here today, correct? 19 MR. KOOPMANN: Object to form. 20 A In the meta-analysis, you are not aware of 21 the protocols. 22 Q (By Mr. Schnieders) And a meta-analysis is 23 not actually reporting any first-hand information; 24 it's taking other information and grouping it, fair? 25 A It's taking information from all the</p>	<p style="text-align: right;">Page 85</p> <p>1 cohort studies that are not compared to anything or 2 anybody to a different group. So it's a longitudinal 3 study. And those can be retrospective cohort 4 studies, or they can be prospective cohort studies. 5 Q And with regard to trials, the longer the 6 data that you can obtain, the better off you are, 7 correct? 8 A I'm not sure I understand the question. So 9 are you saying that the longer-term follow-up is 10 better than short-term follow-up? 11 Q Correct. 12 A So it depends on what you're looking at. 13 If you look at cure rate, the longer follow-up is, 14 the better. Same thing for complication rates. But 15 as far as certain complications like perioperative 16 complications, you are only going to assess those in 17 the short term because they are associated with the 18 surgery. 19 So it depends on, you know, what you're 20 wanting to look at and what you're wanting to 21 evaluate. 22 Q Sure. That's fair. But if we are looking 23 at something like chronic pain following implantation 24 of a TVT sling, you want long-term follow-up, 25 correct?</p>

<p style="text-align: right;">Page 86</p> <p>1 A Yes.</p> <p>2 Q That data is going to be more important to</p> <p>3 you as a clinician than short-term follow-up,</p> <p>4 correct?</p> <p>5 A That's not necessarily the case. And</p> <p>6 that's because just because a patient develops pain,</p> <p>7 it doesn't mean it's caused by, for example, a TVT</p> <p>8 sling. As a patient ages, there's multiple factors</p> <p>9 that can contribute to the development of pain; most</p> <p>10 specifically, degenerative joint disease.</p> <p>11 A person who is 40 years old is unlikely to</p> <p>12 have pain from degenerative joint disease, but when</p> <p>13 they're in their 50s and 60s, women can develop pain</p> <p>14 that's due to degenerative joint disease. So the</p> <p>15 development of pain long-term is not necessarily</p> <p>16 caused by the sling procedure.</p> <p>17 MR. SCHNIEDERS: Okay. And I'm going to</p> <p>18 object and move to strike as nonresponsive.</p> <p>19 Q (By Mr. Schnieders) I didn't say anything</p> <p>20 about it being caused by TVT, Doctor. I'm asking</p> <p>21 about looking at the issue.</p> <p>22 If you want to determine whether or not</p> <p>23 there is an association or a causal relationship</p> <p>24 between implantation of a device like the TVT sling</p> <p>25 and chronic pain, the longer-term trials are going to</p>	<p style="text-align: right;">Page 88</p> <p>1 dyspareunia, if you look at pain, is that the rates</p> <p>2 are either the same or lower in women who've had</p> <p>3 retropubic slings and who have undergone other types</p> <p>4 of anti-incontinence procedure, including the Burch</p> <p>5 and the pubovaginal sling.</p> <p>6 So while it's possible, I think it's very</p> <p>7 unlikely.</p> <p>8 Q And you're -- strike that.</p> <p>9 In order to form that opinion, you're</p> <p>10 relying upon studies, correct?</p> <p>11 A I'm relying on my personal experience with</p> <p>12 the use of a retropubic TVT sling in more than 1,000</p> <p>13 cases and possibly up to 1,500 cases. I'm also</p> <p>14 relying on a biological plausibility of a sling that</p> <p>15 is 1 centimeter -- 1.1 centimeter wide and very thin</p> <p>16 and where it's located within the body.</p> <p>17 Any surgery that's performed within the</p> <p>18 human body has the potential to cause pain, and with</p> <p>19 the TVT sling, because it's minimally invasive, and</p> <p>20 because there's minimal tissue dissection, the</p> <p>21 potential for causing pain, as evidenced by the</p> <p>22 studies and by my personal experience, is minimal.</p> <p>23 Q And you've not tracked your complication</p> <p>24 rates with your own implants, correct?</p> <p>25 A I see probably --</p>
<p style="text-align: right;">Page 87</p> <p>1 give you more information, correct?</p> <p>2 A No. Because, again, my answer -- I don't</p> <p>3 mean to be nonresponsive, but my answer to that</p> <p>4 stands because just because a patient develops pain,</p> <p>5 there's no way to know whether or not it's caused by</p> <p>6 the TVT sling unless you examine a person</p> <p>7 individually who is complaining of that pain. So</p> <p>8 just simply assessing pain long-term in a patient who</p> <p>9 has had a sling, there's no way to determine whether</p> <p>10 or not that is due to the sling in and of itself.</p> <p>11 Q What's epidemiology, Doctor?</p> <p>12 A It is looking at -- oh, that's -- it's hard</p> <p>13 to define. So epidemiology is simply looking at what</p> <p>14 happens within a certain population.</p> <p>15 Q And, Doctor, your opinion here today is</p> <p>16 that the TVT device is not defective as designed,</p> <p>17 correct?</p> <p>18 A Yes.</p> <p>19 Q Is it your opinion that the TVT device</p> <p>20 cannot cause chronic pain?</p> <p>21 A The TVT sling, it's possible that it could</p> <p>22 cause pain, but it's unlikely; and the association of</p> <p>23 TVT sling to pain has not been established. If you</p> <p>24 look at pain in women who have undergone -- and,</p> <p>25 again, looking at the Schimpf article, if you look at</p>	<p style="text-align: right;">Page 89</p> <p>1 Q Doctor, we're going to be here a long time</p> <p>2 if you don't just answer the questions.</p> <p>3 You've not tracked the complication rates</p> <p>4 of your own patients when you've implanted TVT or</p> <p>5 sling devices, correct?</p> <p>6 MR. KOOPMANN: Object to form.</p> <p>7 A I see multiple patients on a daily basis.</p> <p>8 I see approximately 20 patients a day, and I've been</p> <p>9 doing this for more than 10 years. So I've seen</p> <p>10 thousands of women who've had slings. And I have not</p> <p>11 examined a single patient who has had pain</p> <p>12 attributable to her retropubic sling.</p> <p>13 Q (By Mr. Schnieders) You've never examined</p> <p>14 a patient where you've attributed the pain to the</p> <p>15 device, correct?</p> <p>16 A I have never examined a patient where there</p> <p>17 has been pain that is caused by the sling, that</p> <p>18 retropubic sling.</p> <p>19 Q I'm not trying to mince words here, Doctor,</p> <p>20 but you're the one attributing where the pain is</p> <p>21 from, correct?</p> <p>22 A I have never found a patient who's had pain</p> <p>23 from the sling.</p> <p>24 Q Who did the examination in these instances</p> <p>25 that we're talking about?</p>

<p style="text-align: right;">Page 90</p> <p>1 A Myself.</p> <p>2 Q Okay. Was there anyone else in the room</p> <p>3 that was deciding whether or not the pain was from</p> <p>4 the sling?</p> <p>5 A No.</p> <p>6 Q Okay. So you have not attributed the pain</p> <p>7 in all of those instances to the sling, correct?</p> <p>8 A As a physician and expert in pelvic surgery</p> <p>9 and someone who has examined multiple women,</p> <p>10 thousands of women who have pain, on a daily basis</p> <p>11 when I'm in practice evaluated women with pain, I</p> <p>12 have not found a single case where a retropubic</p> <p>13 pain -- a retropubic sling has caused pain. And,</p> <p>14 yes, that is my expert opinion by examining thousands</p> <p>15 of women with pain.</p> <p>16 Q Thousands of women that have TVT devices</p> <p>17 implanted?</p> <p>18 A With and without TVT slings. So whenever I</p> <p>19 see a patient, one of the things that gynecologists</p> <p>20 and specifically urogynecologists see a lot of is</p> <p>21 pelvic pain. So I have examined lots and lots of</p> <p>22 women who have pelvic pain, some of which have TVT</p> <p>23 slings and some which do not.</p> <p>24 Q Well, clearly the women that don't have</p> <p>25 slings can't have pain attributable to the sling,</p>	<p style="text-align: right;">Page 92</p> <p>1 any of those procedures can potentially cause pain;</p> <p>2 but the chances with the sling, because it is</p> <p>3 minimally invasive and because it's so small, that's</p> <p>4 what I'm talking about as far as the biological</p> <p>5 possibility.</p> <p>6 When you make a large incision, when you do</p> <p>7 a lot of tissue dissection, you know, those are</p> <p>8 things that can be associated with the development of</p> <p>9 pain when those incisions especially are within the</p> <p>10 vagina. And when we talk about pain here, I'm</p> <p>11 talking more about dyspareunia as opposed to chronic</p> <p>12 pelvic pain.</p> <p>13 Q Okay. Doctor, with regard to the Burch</p> <p>14 procedure, would you consider it to be a gold</p> <p>15 standard in curing women's stress incontinence?</p> <p>16 A It is one of the gold standards for the</p> <p>17 surgical treatment of stress incontinence.</p> <p>18 Q Would you also consider an autologous</p> <p>19 fascial sling to be a gold standard for the treatment</p> <p>20 of stress urinary incontinence?</p> <p>21 A I think the pubovaginal sling has more</p> <p>22 risks than the Burch retropubic urethropexi, but it</p> <p>23 has a higher cure rate. So I would utilize the</p> <p>24 pubovaginal sling for a subset of patients, and I</p> <p>25 wouldn't use it as a first-line choice, whereas the</p>
<p style="text-align: right;">Page 91</p> <p>1 fair?</p> <p>2 A Absolutely.</p> <p>3 Q So how many women would you estimate you've</p> <p>4 seen that have slings implanted that you have</p> <p>5 examined for pain?</p> <p>6 A Excuse me. Not very many. Not pelvic</p> <p>7 pain. Not pain -- I mean, they have pain that's like</p> <p>8 at the apex of the vagina, but pain over the TVT</p> <p>9 sling site that are retropubic, none.</p> <p>10 Q Going back to what you said a moment ago,</p> <p>11 Doctor, is it your testimony in this case that it is</p> <p>12 biologically impossible for the TVT sling to cause</p> <p>13 pelvic pain?</p> <p>14 A No, I didn't say that. I said it's highly</p> <p>15 unlikely.</p> <p>16 Q Well, you were the one that brought up the</p> <p>17 term "biologically possible," Doctor, so what did you</p> <p>18 mean by that?</p> <p>19 A What I mean is, is that because of where</p> <p>20 the sling is located, that it's retropubic and that</p> <p>21 it is very small, that its chances of causing pain</p> <p>22 chronically is very low. But I also said anytime</p> <p>23 that you do surgery on a patient, regardless of</p> <p>24 whether it's a TVT sling or it's a pubovaginal sling</p> <p>25 or it's a Burch procedure or it's an anterior repair,</p>	<p style="text-align: right;">Page 93</p> <p>1 Burch would be a first-line choice.</p> <p>2 Q Okay. So with regard to the Burch, let's</p> <p>3 take that.</p> <p>4 What are the risks of a Burch procedure?</p> <p>5 A So the risks of the Burch procedure are</p> <p>6 failure to cure the incontinence; development of de</p> <p>7 novo urgency incontinence or overactive bladder;</p> <p>8 injury to the bladder -- or the pelvic organs, so it</p> <p>9 would be the bladder, the ureter, the urethra;</p> <p>10 retention; not being able to urinate on a prolonged</p> <p>11 or permanent basis; infection; bleeding</p> <p>12 complications.</p> <p>13 If permanent suture is used, that suture</p> <p>14 could potentially erode into the bladder. That risk</p> <p>15 is very low.</p> <p>16 There's risks if it's done through an</p> <p>17 incision of incisional complications, hernia,</p> <p>18 infection of the incision, wound seroma. Those are</p> <p>19 not common complications.</p> <p>20 Uncommon complications would be nerve</p> <p>21 injury, scarring in the retropubic space.</p> <p>22 But if I were to consent a patient I</p> <p>23 wouldn't list all of those, I would only list the</p> <p>24 most common complications, which are the first ones</p> <p>25 that I listed.</p>

<p style="text-align: right;">Page 94</p> <p>1 Q Okay.</p> <p>2 A I would also --</p> <p>3 Q And with regard to a Burch, what failure</p> <p>4 rate would you opine would occur?</p> <p>5 A I just want to add to my last answer, I</p> <p>6 would tell the patient while a serious complication</p> <p>7 is rare, any one of those serious complications could</p> <p>8 require surgery at a later date. The success rate</p> <p>9 for the Burch in the short term, five years and less,</p> <p>10 is approximately 80 to 90 percent, and with follow-up</p> <p>11 of approximately up to 20 years, the cure rate falls</p> <p>12 off to 50 to 60 percent.</p> <p>13 Q Okay. All right. Now, going to a TVT-felt</p> <p>14 sling, which I'm speaking specifically about</p> <p>15 Ethicon's TVT, what are the risks of the TVT?</p> <p>16 A The same as above, with the exceptions we</p> <p>17 don't have the risk of the wound complications from</p> <p>18 the abdominal incision. And there is a risk of</p> <p>19 the -- instead of it being permanent suture, it would</p> <p>20 be the mesh being exposed within the vagina, the</p> <p>21 urethra, or the bladder.</p> <p>22 Q And what is the failure rate on a TVT, in</p> <p>23 your opinion?</p> <p>24 A So based on my review of the literature, it</p> <p>25 is 80 to 90 percent and --</p>	<p style="text-align: right;">Page 96</p> <p>1 Q So whether it's called an "erosion" or an</p> <p>2 "exposure," what does that mean?</p> <p>3 A Pardon me?</p> <p>4 Q Whether we call it an "erosion" or an</p> <p>5 "exposure," what does it mean?</p> <p>6 A What do you mean, "what does it mean"?</p> <p>7 Q What is that? What is that complication?</p> <p>8 If you see that when a woman comes into</p> <p>9 your clinic, what does that mean?</p> <p>10 A So just what I said, that I can see the</p> <p>11 mesh in the vagina and it's not covered by the</p> <p>12 vaginal skin.</p> <p>13 Q Okay. Does that mean it's eroded through</p> <p>14 something to get there?</p> <p>15 A It means it's exposed. So whether --</p> <p>16 that's why we don't use the term "eroded" anymore.</p> <p>17 Q "Exposure" and "erosion" are two different</p> <p>18 things, aren't they, Doctor?</p> <p>19 A I don't believe so.</p> <p>20 Q Doctor, is there a difference between a</p> <p>21 suture and a mesh?</p> <p>22 A Well, a suture is a suture and mesh is</p> <p>23 mesh.</p> <p>24 Q Okay. So is mesh much larger than a</p> <p>25 suture?</p>
<p style="text-align: right;">Page 95</p> <p>1 MR. KOOPMANN: He asked about failure rate.</p> <p>2 A Oh, I'm sorry. I thought success. Failure</p> <p>3 rate is 10 to 20 percent.</p> <p>4 Q (By Mr. Schnieders) And is that based on</p> <p>5 the five-year results?</p> <p>6 A It's based on 5- and the 10-year and then</p> <p>7 the 17-year. It's --</p> <p>8 Q It's -- up to 17 years the success rate is</p> <p>9 still 80 to 90 percent with TVT?</p> <p>10 A No. The longer-term studies is they're</p> <p>11 more in the 80 percent range.</p> <p>12 Q You would agree that from an efficacy</p> <p>13 standpoint, the Burch procedure is equivalent to TVT,</p> <p>14 correct?</p> <p>15 A In the short term, and by that I mean five</p> <p>16 years and less.</p> <p>17 Q So let's talk about a "mesh erosion."</p> <p>18 What does that mean?</p> <p>19 A So I prefer to use the term -- and that's</p> <p>20 the term that's probably used more -- is "exposure."</p> <p>21 So that means that when a vaginal exam is done, the</p> <p>22 mesh is exposed within the vagina --</p> <p>23 Q Okay.</p> <p>24 A -- instead of being covered by the vaginal</p> <p>25 mucosa.</p>	<p style="text-align: right;">Page 97</p> <p>1 A So the mesh in the sling is 1.1 centimeters</p> <p>2 wide, whereas a suture is going to be, obviously,</p> <p>3 much smaller, in millimeter size.</p> <p>4 Q And are you aware if they're made out of</p> <p>5 the same exact materials or if there are differences?</p> <p>6 A Well, it depends on what suture was</p> <p>7 utilized. So, you know, for permanent sutures,</p> <p>8 there's multiple different kinds that could be used</p> <p>9 for pubovaginal slings or for Burch's.</p> <p>10 Q And there's also dissolving or nonpermanent</p> <p>11 sutures that can be used, too, correct?</p> <p>12 A Yes, but we wouldn't be talking about those</p> <p>13 sutures being exposed within the vagina or within the</p> <p>14 bladder or within the urethra because they would</p> <p>15 dissolve. They are dissolvable sutures.</p> <p>16 Q That's right. Is there a risk of infection</p> <p>17 from mesh?</p> <p>18 A Yes. With any surgical procedure for</p> <p>19 urinary incontinence, there's always a risk of</p> <p>20 infection.</p> <p>21 Q With the introduction of a foreign body</p> <p>22 like mesh, is the risk for infection higher than it</p> <p>23 would be with the Burch procedure?</p> <p>24 A I don't believe there's any Level I</p> <p>25 evidence that shows that the risk of infection is</p>

<p style="text-align: right;">Page 98</p> <p>1 higher.</p> <p>2 Q And when you say "Level 1," are you talking</p> <p>3 about a randomized controlled trial?</p> <p>4 A Yes.</p> <p>5 Q Are you aware of any evidence that shows</p> <p>6 that the risk for infection is higher with regard to</p> <p>7 mesh than it is with the Burch procedure?</p> <p>8 A No, because if you look at a Burch</p> <p>9 procedure, you're going to have to take into account</p> <p>10 incisional infection in addition to -- which are</p> <p>11 going to be much greater than with a sling -- a TVT</p> <p>12 sling procedure.</p> <p>13 Q You would agree that when we're talking</p> <p>14 about mesh that's placed vaginally, that you don't</p> <p>15 want it to be stiff, correct?</p> <p>16 A Well, I think that when you place a sling,</p> <p>17 you want the mesh material to not be -- you know, you</p> <p>18 want the Goldilocks principle. You don't want it to</p> <p>19 be too loose because then it's not going to do what</p> <p>20 it's intended to do, which is to treat stress</p> <p>21 incontinence. So you want the correct balance.</p> <p>22 Q And you would agree that larger pore size</p> <p>23 is better than smaller pore size, correct?</p> <p>24 MR. KOOPMANN: Object to form.</p> <p>25 A So you want a pore size that allows the</p>	<p style="text-align: right;">Page 100</p> <p>1 exposure with the TVT?</p> <p>2 A It's approximately 2 to 3 percent.</p> <p>3 Q Would you agree that it has been associated</p> <p>4 with erosion or exposure rates of 34 percent?</p> <p>5 A So if you look at small studies, there may</p> <p>6 be some rates are that high, but if you look at the</p> <p>7 overall incidence, it's about 2-1/2 percent. So no,</p> <p>8 I would not agree with that statement.</p> <p>9 Q All right. Doctor, I would like to mark as</p> <p>10 Exhibit 10 -- I think is what we're up to -- your</p> <p>11 article entitled Vaginal Erosion of Cadaveric Fascia</p> <p>12 Lata Following Abdominal Sacrocolpopexy and</p> <p>13 Suburethral Sling Urethropey.</p> <p>14 MR. SCHNIEDERS: Do you have that, Court</p> <p>15 Reporter?</p> <p>16 MR. KOOPMANN: We'll grab it here in just</p> <p>17 one second.</p> <p>18 (Exhibit 10 was marked.)</p> <p>19 THE DEPONENT: Okay. We have it.</p> <p>20 Q (By Mr. Schnieders) Okay. And, Doctor, if</p> <p>21 you could first look at the front page. This is the</p> <p>22 article we referenced earlier. This is actually on</p> <p>23 your list of reliance materials that you've authored,</p> <p>24 correct?</p> <p>25 A Yes.</p>
<p style="text-align: right;">Page 99</p> <p>1 macrophages to infiltrate to decrease the risk of</p> <p>2 infection. So the larger the pore size -- so no, I</p> <p>3 don't agree with that statement.</p> <p>4 Q (By Mr. Schnieders) You'd agree that mesh</p> <p>5 causes scar plate formation within the vagina,</p> <p>6 correct?</p> <p>7 A No, I do not.</p> <p>8 Q So there is no scar plate formed within the</p> <p>9 vagina with mesh?</p> <p>10 A So as with any surgery, anytime you're</p> <p>11 making an incision anywhere, you're going to have the</p> <p>12 body's reaction to that, which is some type of a,</p> <p>13 quote, scar, end quote. But as far as a scar plate,</p> <p>14 no.</p> <p>15 Q Does the body react to the mesh?</p> <p>16 A So the body will grow into the sling mesh</p> <p>17 that is there, and it becomes incorporated into that</p> <p>18 body's tissue. There will be a reaction to it, but</p> <p>19 it is not something that causes a, quote, scar plate</p> <p>20 to form, end quote.</p> <p>21 Q So it's your testimony as we sit here</p> <p>22 today, Doctor, that there is no scar plate formed</p> <p>23 based upon the introduction of mesh, correct?</p> <p>24 A A scar plate, no.</p> <p>25 Q Doctor, what is the incidence of mesh</p>	<p style="text-align: right;">Page 101</p> <p>1 Q And if you go to -- it's kind of a long</p> <p>2 article -- but if you go to the third page, where</p> <p>3 Discussion starts --</p> <p>4 A Uh-huh.</p> <p>5 Q -- and go down to the second paragraph, the</p> <p>6 third full sentence starts: Synthetic grafts are</p> <p>7 associated with erosion rates of up to 12 percent for</p> <p>8 abdominal sacrocolpopexy with erosion rate -- and</p> <p>9 with -- and 34 percent for suburethral sling</p> <p>10 urethropey.</p> <p>11 Do you see that?</p> <p>12 A Yes.</p> <p>13 Q Okay. This is an article that you</p> <p>14 authored, correct?</p> <p>15 A Correct.</p> <p>16 Q And you're identifying that suburethral</p> <p>17 sling urethropexies have been associated with erosion</p> <p>18 rates of up to 34 percent, correct?</p> <p>19 A This is in 19 -- this article was published</p> <p>20 in, I believe, 1999, and the sling material that was</p> <p>21 utilized whose rates have been reported up to</p> <p>22 34 percent are not the TVT sling. It is from the use</p> <p>23 of Gore-Tex and Marlex. It's not from the TVT sling.</p> <p>24 This is before TVT slings were being utilized.</p> <p>25 Q So if you go to the study that you're</p>

<p style="text-align: right;">Page 102</p> <p>1 citing there, the Iglesia study.</p> <p>2 Do you see that?</p> <p>3 A Yes.</p> <p>4 Q And is that something that you reviewed and</p> <p>5 included on your list of materials for your expert</p> <p>6 report here?</p> <p>7 A The Iglesia article from 1997?</p> <p>8 Q Yes.</p> <p>9 A I don't recall if I have. I don't think I</p> <p>10 did.</p> <p>11 Q Okay. So sitting here today, you're not</p> <p>12 aware of mesh erosion rates of up to 34 percent with</p> <p>13 regard to TVT polypropylene mesh, correct?</p> <p>14 MR. KOOPMANN: Object to form.</p> <p>15 A So there may be an individual study that</p> <p>16 shows that, but that is the benefit of looking at a</p> <p>17 meta-analysis where there's thousands of patients.</p> <p>18 You may have a study population of 50</p> <p>19 patients, and 17 of those have a mesh erosion, but</p> <p>20 you don't know if the next 100 patients have no mesh</p> <p>21 erosion. So when you group patients together and you</p> <p>22 have larger numbers, that's going to give you a</p> <p>23 better idea of the incidence of mesh erosion than</p> <p>24 looking at a single isolated study.</p> <p>25 Q (By Mr. Schnieders) Sure. And that goes</p>	<p style="text-align: right;">Page 104</p> <p>1 Q Okay. Doctor, you would agree that mesh</p> <p>2 erosion -- or using your term, because you said</p> <p>3 "erosion" in your study here -- but mesh erosion or</p> <p>4 exposure causes pain for the patient, correct?</p> <p>5 A Can you ask that question again, please.</p> <p>6 Q I'm going to use the term "erosion" because</p> <p>7 that's what you used --</p> <p>8 A Sure.</p> <p>9 Q -- in your study or in your article we just</p> <p>10 looked at.</p> <p>11 You would agree that mesh erosion causes</p> <p>12 pain for the patient.</p> <p>13 A It can, but not always. In fact, most</p> <p>14 exposures are asymptomatic.</p> <p>15 Q You would agree that mesh erosion can cause</p> <p>16 chronic pain.</p> <p>17 A It's possible.</p> <p>18 Q You would agree that mesh erosion can cause</p> <p>19 a scar.</p> <p>20 A No.</p> <p>21 Q Just so I'm clear, if mesh erodes through,</p> <p>22 for instance, the urethra, it cannot cause a scar?</p> <p>23 It's not possible?</p> <p>24 A Where are you talking about a scar</p> <p>25 formation? I mean, the whole -- when you have an</p>
<p style="text-align: right;">Page 103</p> <p>1 to your issue of powering.</p> <p>2 A That's not powering. That is the numbers</p> <p>3 that have that complication. Power is a completely</p> <p>4 different issue.</p> <p>5 Q I disagree, Doctor, and you didn't let me</p> <p>6 finish my question.</p> <p>7 A I apologize.</p> <p>8 Q I let you finish your question -- your</p> <p>9 answer -- so let me get back to it.</p> <p>10 A Sure. I'm sorry.</p> <p>11 Q -- a randomized --</p> <p>12 (All speaking simultaneously, and reporter</p> <p>13 requested clarification.)</p> <p>14 Q (By Mr. Schnieders) Let me start over.</p> <p>15 Doctor, getting back to the power issue, in</p> <p>16 order to demonstrate something in a randomized</p> <p>17 clinical trial, you need to have sufficient numbers</p> <p>18 in order to be powered to detect that, correct?</p> <p>19 A Yes.</p> <p>20 Q And you would agree that there are no</p> <p>21 randomized clinical trials that have been powered to</p> <p>22 detect long-term pelvic pain, correct?</p> <p>23 A For the TVT sling?</p> <p>24 Q Yes, ma'am.</p> <p>25 A Yes.</p>	<p style="text-align: right;">Page 105</p> <p>1 exposure or erosion, there is no vaginal tissue</p> <p>2 there. It's going to cause an inflammatory</p> <p>3 reaction --</p> <p>4 Q Doctor, is a scar an inflammatory reaction?</p> <p>5 A I'm just thinking out loud. So there could</p> <p>6 be some scarring from an exposure, yes.</p> <p>7 Q Do you agree that mesh erosion can cause</p> <p>8 pain during intercourse?</p> <p>9 A It can cause pain to the partner if they</p> <p>10 feel the exposed part, yes.</p> <p>11 Q And is it your testimony that mesh erosion</p> <p>12 cannot cause pain to a woman that actually</p> <p>13 experiences it during intercourse?</p> <p>14 MR. KOOPMANN: Object to the form.</p> <p>15 A I don't understand the question.</p> <p>16 Q (By Mr. Schnieders) So you answered on</p> <p>17 behalf of the partner. So I'm asking the opposite</p> <p>18 question.</p> <p>19 Can mesh exposure cause pain to a woman</p> <p>20 during intercourse?</p> <p>21 A I guess it's possible.</p> <p>22 MR. SCHNIEDERS: Okay. I am starting to</p> <p>23 get down to -- I'm at about 35 minutes, so I'm going</p> <p>24 to take a quick break, get my materials back</p> <p>25 together, and then we'll get started again, if that's</p>

<p style="text-align: right;">Page 106</p> <p>1 all right.</p> <p>2 MR. KOOPMANN: Okay.</p> <p>3 (Recess from 11:47 a.m. to 11:56 a.m.)</p> <p>4 (Exhibit 11 was marked.)</p> <p>5 MR. SCHNIEDERS: We're back on the record</p> <p>6 after a quick break.</p> <p>7 Q (By Mr. Schnieders) Doctor, did you review</p> <p>8 any documents over the break?</p> <p>9 A I did not.</p> <p>10 Q Doctor, would you agree that polypropylene</p> <p>11 mesh shrinks inside of a patient?</p> <p>12 A Not to any clinically significant degree.</p> <p>13 Q But it shrinks to what you would call</p> <p>14 subclinically significant degree, correct?</p> <p>15 A The evidence that I've seen shows that it</p> <p>16 hasn't shrunk significantly.</p> <p>17 Q Would you agree that polypropylene mesh can</p> <p>18 degrade inside of the human body?</p> <p>19 A No, I do not.</p> <p>20 Q Okay. Do you think it's possible that it</p> <p>21 degrades inside the human body?</p> <p>22 A Not to any clinically significant degree.</p> <p>23 If we look at, for example, cadaveric fascia lata in</p> <p>24 explant, there's a significant degree of degradation,</p> <p>25 and that is associated with a significantly lower</p>	<p style="text-align: right;">Page 108</p> <p>1 (All speaking simultaneously, and reporter</p> <p>2 requested clarification.)</p> <p>3 A -- for a sling procedure.</p> <p>4 Q (By Mr. Schnieders) Doctor, I appreciate</p> <p>5 it, but I need you to answer my question. I'm not</p> <p>6 asking whether it does fray or it doesn't fray. I'm</p> <p>7 asking: You agree that Ethicon did not design the</p> <p>8 TVT mesh to fray, correct?</p> <p>9 A It's not designed to fray, yes.</p> <p>10 Q And you agree that Ethicon did not design</p> <p>11 the TVT mesh to lose particles, correct?</p> <p>12 MR. KOOPMANN: Object to form.</p> <p>13 A It's designed to treat stress urinary</p> <p>14 incontinence.</p> <p>15 Q (By Mr. Schnieders) And part of that is</p> <p>16 not -- it's not designed to have loose particles,</p> <p>17 correct?</p> <p>18 A If a particle were to be lost, a small</p> <p>19 piece, it would not change its primary design, which</p> <p>20 is to treat stress urinary incontinence.</p> <p>21 Q Doctor, that's not my question. I'm not</p> <p>22 saying that you're telling me that there are clinical</p> <p>23 consequences of any of these things. I'm just asking</p> <p>24 whether it was designed to lose particles or not.</p> <p>25 Was it designed to lose particles?</p>
<p style="text-align: right;">Page 107</p> <p>1 cure of stress incontinence pretty quickly with time.</p> <p>2 When we look at the TVT sling with</p> <p>3 follow-up ranging from 10 to 17 years, while there is</p> <p>4 a -- maybe a slight decrease, there's no significant</p> <p>5 decrease. So based on this, there's no clinically</p> <p>6 significant degradation of TVT slings.</p> <p>7 Q Doctor, you would agree that you cannot</p> <p>8 determine if there is degradation unless you actually</p> <p>9 remove mesh from the body, correct?</p> <p>10 A You could have microscopic degradation</p> <p>11 possibly that's not clinically significant.</p> <p>12 Q Doctor, you would agree that Ethicon did</p> <p>13 not design the TVT mesh to rope, correct?</p> <p>14 A Yes.</p> <p>15 Q Doctor, you would agree that Ethicon did</p> <p>16 not design the TVT mesh to curl, correct?</p> <p>17 A It's not been designed to do that, no.</p> <p>18 Q And you would agree that Ethicon did not</p> <p>19 design the TVT mesh to fray, correct?</p> <p>20 A So I have seen pictures, and I've seen some</p> <p>21 internal memos that when the TVT sling was pulled or</p> <p>22 stretched beyond physiological parameters that there</p> <p>23 was some fraying, but not under clinical scenarios</p> <p>24 when implanted --</p> <p>25 Q And I appreciate that but --</p>	<p style="text-align: right;">Page 109</p> <p>1 A I believe it wouldn't be designed to lose</p> <p>2 particles, no.</p> <p>3 Q Did Ethicon design the TVT mesh to shrink?</p> <p>4 A It was studied to make sure there was no</p> <p>5 appreciable shrinkage before they brought it on the</p> <p>6 market. So no, it was not designed to shrink</p> <p>7 clinically significantly.</p> <p>8 Q And you agree that Ethicon did not design</p> <p>9 TVT mesh to easily deform, correct?</p> <p>10 MR. KOOPMANN: Object to form.</p> <p>11 A So I don't know what you mean by "easily</p> <p>12 deform." One of the properties of the TVT sling is</p> <p>13 that it does have stretching capabilities, and that's</p> <p>14 been hypothesized to be a good thing because it may</p> <p>15 prevent a higher risk of erosion such as what was</p> <p>16 seen with other materials that were not as, quote,</p> <p>17 stretchy.</p> <p>18 So, again, it goes back to that whole</p> <p>19 Goldilocks principle is you want it to deform to some</p> <p>20 degree, but not too much.</p> <p>21 Q (By Mr. Schnieders) You would agree</p> <p>22 Ethicon did not design the TVT mesh to be stiff,</p> <p>23 correct?</p> <p>24 A Again, it goes back to the principle is</p> <p>25 that it has to be somewhat stiff in order to provide</p>

<p style="text-align: right;">Page 110</p> <p>1 a hammock of support underneath the urethra against 2 which the urethra can be compressed closed with 3 increases of abdominal pressure. 4 If it's, you know, too loose, then it's not 5 going to serve the purpose for which it was intended, 6 which is to treat stress incontinence. 7 Q And, Doctor, you would agree that if the 8 TVT mesh were to rope or curl or fray or lose 9 particles or shrink, regardless of whether or not 10 there's a clinical impact, it was an unintended 11 consequence, correct? 12 A I'm thinking about that. Can you repeat 13 the question. 14 Q Doctor, you would agree that if the TVT 15 mesh were to rope or curl or fray or lose particles 16 or shrink, that regardless of whether or not there 17 were clinical impacts, that it was an unintended 18 consequence. 19 A Yes. 20 Q Doctor, have you ever heard the term 21 "pelvic cripple"? 22 A Yes. 23 Q What does that mean? 24 A So it is someone who has issues with being 25 unable to have vaginal intercourse, secondary to a</p>	<p style="text-align: right;">Page 112</p> <p>1 again, going back to my earlier statement about not 2 having seen a woman like this who's had a retropubic 3 TVT sling, I would say that. 4 Q So your testimony, just so I'm clear, is 5 that none of the women that you considered to be 6 pelvic cripples that you've treated had a 7 mid-urethral sling, correct? 8 A In isolation. So they may have had a TVT 9 sling, but they also had multiple prior pelvic 10 surgeries with and without mesh; for example, 11 multiple previous prolapse repairs that could have 12 been done with mesh or without mesh. And those 13 patients could have also had a TVT sling, but not 14 just a simply TVT sling in isolation. 15 Q Okay. Doctor, the mesh -- the 16 polypropylene mesh that's used in the TVT, are you 17 aware if it is the same or different than the mesh 18 that's used in Ethicon's POP kit? 19 A So I have not used the -- Ethicon's pelvic 20 organ prolapse repair kits, so I cannot answer that 21 question. 22 Q And you haven't reviewed any literature 23 related to them, either? 24 A To the Ethicon products? No, I have not 25 for prolapse -- for prolapse kits.</p>
<p style="text-align: right;">Page 111</p> <p>1 tight, small vagina, usually related to scarring from 2 multiple previous pelvic surgeries. It can also -- 3 Q Doctor, have you treated any women that you 4 considered to be pelvic cripples? 5 A I'm also going to say, it also can involve 6 pain on some levels as well. 7 And yes, I have. 8 Q Do you have an estimate as to how many 9 women you have treated that you consider to be pelvic 10 cripples? 11 A So there's varying degrees of, quote, 12 pelvic cripples, end quote. Either somebody who has 13 pain with intercourse and cannot have it comfortably, 14 if it falls into that category, versus somebody who 15 has, you know, a very -- like I described before, 16 which would be very severe. So in that category of 17 "very severe," fortunately, it's not a lot of 18 patients. Maybe -- I would say less than 50. 19 And as far as to lesser degrees of having a 20 tight, small vagina, still able to have intercourse 21 but with some pain, you know, probably in the 50 to 22 100 range. 23 Q Of those women, are you aware of any of 24 them that had transvaginal mesh implanted? 25 A They've had mesh for prolapse repairs, but</p>	<p style="text-align: right;">Page 113</p> <p>1 Q Okay. Doctor, would you agree that doctors 2 rely upon companies such as Ethicon to tell them 3 whether or not the products that they manufacture are 4 safe? 5 A You're saying do they rely on Ethicon to 6 tell them if their product is safe or not? 7 Q Yes. 8 A So it's one of the things that a doctor can 9 rely upon, but I think it's the responsibility of the 10 physician who is performing the procedure to have all 11 the information. And the company that makes that 12 device is not going to have all that information. 13 The literature is a place that I look. I 14 rely on continuing medical education, going to the 15 courses with presentations on both randomized 16 controlled trials as well as cohort studies that look 17 at complications, that look at risks. And I rely on 18 my colleagues as well as my own personal experience. 19 So the last place that I look is with the 20 manufacturer themselves. 21 Q But you agree that doctors in general use 22 that as part of their analysis as to whether a 23 product is safe, correct? 24 A As part of their analysis, yes. 25 Q And you agree that patients should be</p>

<p style="text-align: right;">Page 114</p> <p>1 warned of all significant risks that accompany a 2 procedure for implantation of a medical device, 3 correct? 4 MR. KOOPMANN: Object to form. 5 A So I agree that patients need to be 6 informed of the risks that are commonly associated 7 with that device. 8 Q (By Mr. Schnieders) That are clinically 9 significant, correct? 10 A That are commonly associated with that 11 device and clinically significant, yes. 12 Q Do you agree that a medical device company 13 has the responsibility to warn doctors about 14 significant or clinically significant risks 15 associated with the implantation of its devices? 16 MR. KOOPMANN: Object to form. 17 A So the doctor has the responsibility when 18 he or she is using that device to know the risks, and 19 part of the information gathering of the risks will 20 come from that company. 21 Q (By Mr. Schnieders) Doctor, are you aware 22 of the legal responsibilities that a company has in 23 making and designing its IFU? 24 A I am aware of the -- some of the 25 regulations that are involved, yes.</p>	<p style="text-align: right;">Page 116</p> <p>1 A If there was clinical evidence of that 2 amount of shrinkage, then that should be passed 3 along. And by "clinical," I mean, if there was 4 evidence when used in treating women with stress 5 incontinence that that -- there was that amount of 6 shrinkage, then that should be passed on. 7 However, the clinical data does not support 8 that in that the chance of undergoing a sling 9 revision for urinary tension is quite low. It 10 plateaus. It does not increase with time. And if 11 there was that amount of shrinkage, you should see an 12 increased -- a significant increase in sling revision 13 for retention, both at the incident as well as 14 increasing with time, and we just don't see that. 15 Q Doctor, have you been provided any internal 16 Ethicon documents relating a 30 percent shrinkage 17 rate with a TVT? 18 A I believe that's from abdominal wall hernia 19 repairs. I've seen that. 20 Q Abdominal wall hernia repairs with a TVT? 21 A No. With the use of PROLENE mesh and 22 abdominal wall hernias. I have not seen any 23 documents that shows a 30 percent shrinkage rate of 24 the TVT sling. 25 Q Okay. And that's something that you would</p>
<p style="text-align: right;">Page 115</p> <p>1 Q And are those on your reliance list? 2 A They are in the materials that I provided 3 today. 4 Q So you just in the past couple of weeks 5 since your supplemental reliance list have gone and 6 looked at statutes and CFRs related to the IFU? 7 A Yes. 8 Q Fair to say you hadn't reviewed those at 9 the time you authored your report, correct? 10 A Correct. 11 Q Fair to say that as of the time of your 12 authorizing of this report, you were unaware of the 13 legal responsibilities of what is supposed to be in 14 an IFU, correct? 15 A Yes. 16 Q Doctor, you'd agree that if Ethicon knew 17 that a 30 percent shrinkage rate and an association 18 with pain was correlated with the TVT products, that 19 that's something it should pass along to physicians, 20 correct? 21 MR. KOOPMANN: Object to form, foundation. 22 A So there is no evidence that there is that 23 type of shrinkage when utilized clinically. 24 Q (By Mr. Schnieders) If there was, is that 25 something that Ethicon should pass along?</p>	<p style="text-align: right;">Page 117</p> <p>1 want to know as an expert that's opining in this 2 case, correct? 3 MR. KOOPMANN: Object to form. 4 A So, again, an internal document of what 5 possibly could happen in the lab is not where I would 6 place weight in making my opinion. It's how the 7 sling behaves when implanted and when utilized for 8 the treatment of stress incontinence. 9 And in my review of the literature, as well 10 as my experience with my patients, we do not see that 11 type of shrinkage. Again, if we would, we would be 12 doing a lot more sling revisions for retention, and 13 we don't see that. 14 In the Nilsson study which has that 15 long-term follow-up, all of the patients that did not 16 have comorbidities had a normal post-void residual. 17 We also have ultrasound studies that show 18 that there is no change in the position. There's not 19 any shrinkage -- or any clinically significant 20 shrinkage. 21 We also have the study by Mimi Lukacz and 22 her colleagues from San Diego, which two years after 23 implantation, there was no change in the Q-tip angle, 24 or in the hypermobility of the ureterovesical 25 junction, which, again, shows that there's no</p>

<p style="text-align: right;">Page 118</p> <p>1 clinically significant shrinkage. 2 So that 30 percent, if it happens in the 3 lab or happens in animal studies, doesn't translate 4 into what happens in real life. And that's what I'm 5 basing my expert opinion upon. 6 Q (By Mr. Schnieders) And, Doctor, this is 7 not a controversial issue. You just want to know all 8 the information, don't you? You want to be given the 9 information that is present so you can make your 10 opinion, correct? 11 MR. KOOPMANN: Object to form. 12 A So again, going back to what I just said -- 13 Q (By Mr. Schnieders) Doctor, I don't have 14 time for you to go on, on the same tangent. 15 I'm just asking: You want to have all the 16 information available to be able to make your 17 opinions so you can consider it, correct? 18 MR. KOOPMANN: Object to form. 19 A I don't agree with that based on what I 20 just said. 21 Q (By Mr. Schnieders) Okay. You don't want 22 to have all the information before you make your 23 expert opinion, fair? 24 A So I can review that information, but what 25 I place my weight upon is not the -- whether or not</p>	<p style="text-align: right;">Page 120</p> <p>1 studies that you have referenced in your reliance 2 materials, you factored out all of the suburethral 3 slings that were not Ethicon TVT, correct? 4 A No, because a lot of the studies that -- 5 the highest form of evidence is the meta-analysis. 6 And so a lot of the studies for the meta-analysis 7 that we looked at -- that I looked at contains slings 8 other than the TVT sling, the Ethicon TVT slings. 9 The majority are going to be the Ethicon TVT slings, 10 but it's not -- but they're not all. 11 Q Okay. Fair to say as we sit here today 12 that of the literature that you've considered, you 13 can't identify how often it's dealing with a TVT 14 product versus a different manufacturer's product, 15 correct? 16 A No. I can identify because the majority of 17 the studies that I've looked at that are individual 18 are going to be the TVT sling. And then when you 19 look at the meta-analysis, you know, I did read how 20 many were TVT -- the retropubics were TVT versus the 21 other -- and, again, the majority are going to be TVT 22 versus the other manufacturers. 23 Q Okay. But despite the fact that the other 24 suburethral slings have different mesh, you didn't 25 factor those out in your considerations, correct?</p>
<p style="text-align: right;">Page 119</p> <p>1 it happens in a laboratory situation. It's what 2 happens in real life. 3 Q But if you haven't been provided with that 4 information, you can't factor it in one way or the 5 other, correct? 6 A I can totally factor it in because 7 regardless of whether that happened in a laboratory 8 situation, I'm still going to have that same opinion. 9 Q Okay. So you are sitting here today, 10 Doctor, saying that your expert opinion would not 11 change even if there was hypothetical information 12 that you don't even know what it says? 13 MR. KOOPMANN: Object to form. 14 A I have seen documents, again, that there is 15 shrinkage of polypropylene mesh by 30 to 40 percent; 16 and that is -- again, is in laboratory situations; 17 and I am basing my opinion on what happens in real 18 life. 19 And I would absolutely take that into 20 consideration, but if I had that information, it 21 would not change my opinion because I'm basing my 22 opinion on what happens in real life and not what 23 happens in a laboratory. 24 Q (By Mr. Schnieders) When you formed your 25 expert opinion in this case, Doctor, and you read the</p>	<p style="text-align: right;">Page 121</p> <p>1 MR. KOOPMANN: Object to form. 2 A So say that again. 3 Q (By Mr. Schnieders) Despite the fact that 4 there are other manufacturers' suburethral slings and 5 that those slings have different mesh then the TVT 6 product, you did not factor those out, correct? 7 A No, because in my report it does say, 8 Retropubic slings like the TVT. So when we look at 9 the meta-analysis, I did take that into 10 consideration. And when you look at the long-term 11 studies, those are all going to be -- for the most 12 part, all going to be the TVT slings. 13 Q Doctor, are you -- we established 14 previously that you're a member of IUGA, correct? 15 A Yes. 16 Q Did you know that IUGA has put out a mesh 17 complication classification system? 18 A Yes. 19 Q It's the Haylen article, but I did not see 20 that reflected in your reliance materials. 21 Is that something that you've read? 22 A I have read parts of it, yes. 23 Q Any particular reason why you didn't read 24 it for your expert reports in this transvaginal mesh 25 case?</p>

<p style="text-align: right;">Page 122</p> <p>1 A Because I was focusing on the TVT sling, so 2 I did not reference that in this case. 3 Q Okay. And that classification system deals 4 with complications of the TVT sling amongst other 5 meshes, correct? 6 A Yes. 7 Q Okay. But you agree that that's not 8 something you considered in forming your opinions 9 here today? 10 A That article? 11 Q Correct. 12 A I did consider it when I used the word 13 "exposure" versus "erosion." That's what I'm basing 14 using that terminology. 15 Q Sitting here today, Doctor, you haven't 16 even fully read that article yet, have you? 17 A I probably read 90 percent of it, and -- 18 (All speaking simultaneously, and reporter 19 requested clarification.) 20 A And I would also say that one of the 21 reasons why it's not referenced is because there's 22 very -- it's not used in very much of the literature 23 currently -- in the TVT literature. 24 Q (By Mr. Schnieders) But it's a guideline 25 from IUGA, correct?</p>	<p style="text-align: right;">Page 124</p> <p>1 A You'll have to ask Ethicon about that. I 2 can hypothesize for you, but I can't tell you why the 3 company changed the IFU. 4 Q Okay. You would agree that you're not able 5 to opine as to what was in the IFU and why, correct? 6 A No. I can tell you that in the IFU what's 7 required according to the federal guidelines is for 8 adverse events and complications which are unique to 9 that device, are not well known, should be placed in 10 the IFU. 11 Q And we established before that you had not 12 read those federal guidelines until after drafting 13 your report, correct? 14 MR. KOOPMANN: Object to form. 15 A Correct. 16 Q (By Mr. Schnieders) Doctor, are you 17 familiar with the Agnew article entitled Functional 18 Outcomes Following Surgical Management of Pain 19 Exposure or Extrusions Following a Suburethral Tape 20 Insertion for Urinary Stress Incontinence? 21 It doesn't appear on your reliance list. 22 That's why I ask. 23 A I would have to -- that does sound 24 familiar. I'm looking at the supplemental list here. 25 No, it's not on my list.</p>
<p style="text-align: right;">Page 123</p> <p>1 A Yes. 2 Q And you reference other guidelines from 3 IUGA, correct? 4 A In relationship to the use of the TVT 5 sling. 6 Q Those are in your report, right? 7 A The other guidelines from IUGA with respect 8 to the TVT sling, yes, as well as to training of 9 pelvic surgeons. 10 Q And I actually looked at the training of 11 pelvic surgeons. 12 Would it surprise you that dyspareunia 13 doesn't appear in that document in any way, shape, or 14 form? 15 A I think it talks about sexual dysfunction. 16 Q Because you're using that as the basis to 17 say that all pelvic surgeons are aware of all of the 18 risks that are in the current IFU for TVT today, 19 correct? 20 A Yes. 21 Q Okay. And they were going back into the 22 mid-2000s, correct? 23 A Yes. 24 Q Then why is it that the IFU has changed 25 over time?</p>	<p style="text-align: right;">Page 125</p> <p>1 Q Which means you didn't consider it for your 2 report today, correct? 3 A Correct. 4 Q Same with if there are articles that are 5 not in either your reliance list, your report, your 6 supplemental reliance list, or Exhibit 8, you didn't 7 consider them in forming your opinions, correct? 8 MR. KOOPMANN: Object to form. 9 A I'm sorry. When he says that, I lose my 10 train of thought. 11 Can you please read that back for me. 12 Q (By Mr. Schnieders) Sure. And I can just 13 ask it again. 14 If the -- with regard to the articles, if 15 it's not -- or studies, if it's not in your expert 16 report, your reliance list, your supplemental expert 17 report, or your supplemental reliance list as 18 Exhibit 9, or your materials in Exhibit 8, it's not 19 something that you considered in forming your 20 opinions, correct? 21 A Correct. 22 Q Doctor, you're not an expert in the design 23 of the TVT, correct? 24 MR. KOOPMANN: Object to form. 25 A So I have utilized different devices in</p>

<p style="text-align: right;">Page 126</p> <p>1 pelvic surgery for more than 20 years. So I would 2 say I'm an expert in the -- their use. 3 Q (By Mr. Schnieders) Right. But as far as 4 actually designing products, you've never designed 5 anything for a device company, correct? 6 A I have not designed something for a device 7 company, but I certainly have utilized or evaluated 8 multiple devices. And in that sense, I'm an expert 9 in what is used within the female pelvis as far as 10 devices. 11 Q In your expert report, you say that a pore 12 size is enough that one can see through the mesh 13 easily, and it's sufficiently large to permit tissue 14 ingrowth and permit entry of microfascias to clear 15 material. 16 You would agree that that's a statement 17 that you are making -- strike that. 18 Sorry. Strike that. I'm running out of 19 time. 20 Doctor, what's the proper way to tension 21 the TVT device? 22 A So that is something that is individual 23 based on the patient. If you compare the TVT sling 24 as -- to the pubovaginal sling, the traditional 25 slings, those slings were placed under somewhat</p>	<p style="text-align: right;">Page 128</p> <p>1 procedure, the pubovaginal sling, or with the TVT, 2 it's somewhat of an art in how to tension it. 3 And just like I said, back when you tied 4 down the Burch stitches, oftentimes you would tie 5 them down as tightly as possible. But then we 6 started to learn if you tied it down really tight, 7 then they might have some degree of obstruction. So 8 then we tied it down until we thought there was 9 adequate support. 10 With the TVT sling, again, you want -- you 11 have a way to kind of guide how tight to make the 12 tension by the intraoperative stress test or placing 13 under no tension at all with -- in patients who don't 14 have significant incontinence. 15 And that is not something that Ethicon can 16 teach. It's something that's learned through 17 mentorship or through continuing medical education 18 courses. And, you know, if it's a course that 19 Ethicon sponsors, that's fine; but, you know, the way 20 I learned was through mentorship and by reading the 21 original report that Ulmsten wrote. And, again, any 22 reasonable physician who is performing that surgery 23 should know that. 24 Q Okay. And, Doctor, what does IFU stand 25 for?</p>
<p style="text-align: right;">Page 127</p> <p>1 greater tension because they were tended to be used 2 for, quote, rescue when people had real severe 3 incontinence. 4 So the tension that's under the TVT sling 5 should be minimal to tension free. And when the TVT 6 sling is placed according to the original protocol 7 developed by Ulmsten, he would fill the bladder to 8 300 milliliters and then have the patient cough and 9 adjust the tension until the tension -- until the 10 patient had only drops of urine. 11 And the way I train and the way I perform 12 the TVT sling is in patients who have more severe 13 incontinence, I follow the Ulmsten method, where I 14 have the patient cough, or I will simulate a cough by 15 pressing on her abdomen with 300 milliliters, and 16 tighten the sling down until there's no leakage. 17 In women who do not have severe 18 incontinence, then I will place it under minimal to 19 no tension. 20 Q Do you believe that Ethicon is responsible 21 to tell physicians how to properly tension its 22 device? 23 A No, I don't believe Ethicon is responsible 24 at all. Again, that's when you are treating stress 25 incontinence surgically, whether it's with the Burch</p>	<p style="text-align: right;">Page 129</p> <p>1 A Oh, my brain. 2 Q Is it Instructions for Use? 3 A Thank you. Instructions for Use. 4 Q Okay. So, literally, the IFU are the 5 instructions for use for the TVT, correct? 6 A Correct. 7 Q And they discuss how to tension the TVT 8 device, correct? 9 A Yes, that's in there. 10 Q Okay. Do you agree that the strongest 11 unmet need with a TVT is the ability to adjust 12 tension both intraoperatively and postoperatively? 13 A No, I don't agree with that. 14 Q Do you believe that the ability to adjust 15 tension both intraoperatively and postoperatively is 16 maximal and there's no need to improve on that? 17 A Well, you can't adjust it postoperatively, 18 but I'm not sure that it's an unmet need. You can't 19 adjust tension on a Burch or an autologous 20 pubovaginal sling, either. 21 In the operating room, you can certainly 22 adjust the tension on the TVT sling just as I 23 described. 24 Q Do you agree that there is not a consensus 25 on the right size of the mesh used for SUI?</p>

<p style="text-align: right;">Page 130</p> <p>1 MR. KOOPMANN: Object to form.</p> <p>2 A So the right size -- you mean pore size?</p> <p>3 Q (By Mr. Schnieders) No. The right -- the</p> <p>4 amount of mesh used.</p> <p>5 A So the question is: Is the amount of mesh</p> <p>6 that -- "the size," you mean as far as whether it's</p> <p>7 1 centimeter or 2 centimeters?</p> <p>8 Q The amount of mesh used in a sling, Doctor.</p> <p>9 A So I believe there is a consensus from many</p> <p>10 societies -- IUGA, AUGS, SUFU, a whole lot of other</p> <p>11 ones, that the TVT sling is considered to be, quote,</p> <p>12 the gold standard. And so that size of a mesh, I</p> <p>13 would think, would be a consensus.</p> <p>14 The midurethral slings, the ones that are</p> <p>15 used now, are all in the range of 1 to 1.1</p> <p>16 centimeters, so I believe --</p> <p>17 Q Is that the --</p> <p>18 A -- there is a consensus.</p> <p>19 Q -- product that --</p> <p>20 (All speaking simultaneously, and reporter</p> <p>21 requested clarification.)</p> <p>22 Q (By Mr. Schnieders) Has Ethicon come up</p> <p>23 with a product that uses less mesh in a sling?</p> <p>24 A So I know they've investigated the use of a</p> <p>25 mesh that was partially absorbable, but they weren't</p>	<p style="text-align: right;">Page 132</p> <p>1 that shows very low risks of erosion with the mesh</p> <p>2 that we have currently.</p> <p>3 MR. SCHNIEDERS: All right. Barry, you</p> <p>4 want to -- how long do you guys want to take in</p> <p>5 between depositions?</p> <p>6 MR. KOOPMANN: Well, I want to ask some</p> <p>7 follow-up questions first, and then maybe we'll take</p> <p>8 45 minutes between the two, if that's all right.</p> <p>9 MR. SCHNIEDERS: Sure.</p> <p>10 MR. KOOPMANN: Okay.</p> <p>11 EXAMINATION</p> <p>12 BY MR. KOOPMANN:</p> <p>13 Q Dr. Kammerer-Doak, I want to ask you some</p> <p>14 follow-up questions based on plaintiff's counsel's</p> <p>15 questioning.</p> <p>16 You were asked earlier today about what</p> <p>17 sort of publications you had. And is it true that</p> <p>18 you've published on pubovaginal cadaveric fascial</p> <p>19 slings?</p> <p>20 MR. SCHNIEDERS: Object to the form.</p> <p>21 A Yes, I have.</p> <p>22 Q (By Mr. Koopmann) Does your report that</p> <p>23 has been marked today as Exhibit 4 contain your</p> <p>24 opinions regarding the safety and efficacy of the TVT</p> <p>25 and the labeling for that device?</p>
<p style="text-align: right;">Page 131</p> <p>1 able -- in animal studies, there were some</p> <p>2 deficiencies in it, so they did not bring it onto the</p> <p>3 market because it was -- it didn't work in the animal</p> <p>4 models.</p> <p>5 Q Doctor, you would agree that in order to</p> <p>6 limit mesh-related complications of exposure or</p> <p>7 erosion, that it's optimal to use the least amount of</p> <p>8 mesh necessary to achieve efficacy, correct?</p> <p>9 A So the sling that we have now has a very</p> <p>10 low risk of mesh exposure, and it has a high rate of</p> <p>11 efficacy. So if there were any changes to that mesh,</p> <p>12 it may not work as well. And so I can't agree with</p> <p>13 that statement.</p> <p>14 MR. KOOPMANN: Counsel, your three hours</p> <p>15 are up.</p> <p>16 MR. SCHNIEDERS: Well, I'm going to make</p> <p>17 her answer that question again. She didn't answer</p> <p>18 it.</p> <p>19 So read it back. And then that will be my</p> <p>20 last question.</p> <p>21 (Last question was read.)</p> <p>22 A And as I said, I don't agree with that</p> <p>23 statement because you have to -- you have to balance</p> <p>24 efficacy with risks of complications. And, again, we</p> <p>25 have a safety profile over a large number of years</p>	<p style="text-align: right;">Page 133</p> <p>1 A Yes.</p> <p>2 Q And do you hold those opinions to a</p> <p>3 reasonable degree of medical certainty?</p> <p>4 A I do.</p> <p>5 Q And what are the bases for the opinions</p> <p>6 that you've provided here today?</p> <p>7 A It's based on my review of the literature.</p> <p>8 It's based on my training as a resident and as a</p> <p>9 fellow. It's based on more than 20 years of</p> <p>10 experience as a specialist in pelvic floor surgery.</p> <p>11 It's based on continuing medical education at</p> <p>12 conferences that are specific for pelvic floor</p> <p>13 disorders, including the AUGS, IUGA, and SGS.</p> <p>14 Q Would it also be based in part on your</p> <p>15 medical education --</p> <p>16 MR. SCHNIEDERS: Object to the form.</p> <p>17 Q (By Mr. Koopmann) -- medical school</p> <p>18 education?</p> <p>19 A Yes.</p> <p>20 MR. SCHNIEDERS: Object to the form.</p> <p>21 Q (By Mr. Koopmann) Are your opinions today</p> <p>22 based in part on your -- the research that you've</p> <p>23 done over the course of your career and the</p> <p>24 publications you've issued?</p> <p>25 MR. SCHNIEDERS: Object to the form.</p>

<p style="text-align: right;">Page 134</p> <p>1 A It's based on my research as well as my 2 personal experience. And I hold kind of a unique 3 situation. Even though I don't practice at a 4 tertiary care center, because of the fact that the 5 state of New Mexico has paucity of specialists, I 6 have been referred patients from all over the state 7 of New Mexico, as well as Northern Texas, Arizona, 8 and Southern Colorado.</p> <p>9 So I just don't see routine cases. I, 10 again, function closer to a tertiary care center.</p> <p>11 Q (By Mr. Koopmann) Do you practice 12 evidence-based medicine?</p> <p>13 A Yes, I do, to the --</p> <p>14 MR. SCHNIEDERS: Form.</p> <p>15 A -- best of my ability.</p> <p>16 Q (By Mr. Koopmann) What does that mean?</p> <p>17 A That means I look at the literature, and I 18 base my practices as best I can on the evidence 19 that's out there. For example, I did not start using 20 the TVT sling --</p> <p>21 MR. KOOPMANN: Sorry.</p> <p>22 A -- in my own personal practice until we had 23 the two-year data from the Ward and Hilton study. I 24 knew from previous studies that a randomized compared 25 trial that compared the Burch to the modified Pereyra</p>	<p style="text-align: right;">Page 136</p> <p>1 A The lowest level of evidence, which is 2 considered Level III or Grade C, is the cohort study 3 where patients are followed. And there's the level, 4 like A. So it would be III-A, which would be 5 prospectively followed. And then a lower level than 6 that would be retrospectively.</p> <p>7 Q (By Mr. Koopmann) Where do animal studies 8 fall within the levels of evidence?</p> <p>9 MR. SCHNIEDERS: Object to the form.</p> <p>10 A They do not fall into the evidence for the 11 practice of human medicine.</p> <p>12 Q (By Mr. Koopmann) Are levels of evidence 13 important in your opinion in assessing the safety and 14 efficacy of the TVT device?</p> <p>15 MR. SCHNIEDERS: Object to form.</p> <p>16 A Yes.</p> <p>17 Q (By Mr. Koopmann) Why is that?</p> <p>18 A Because, again, that's evidence-based 19 medicine. The cohort studies could have those 20 findings by chance, but a randomized compared trial 21 lets you know when you compare to another procedure 22 what the true risks are.</p> <p>23 And I'll give an example of that. When we 24 look at the use of hormones in women and we had the 25 retrospective studies, it appeared that there was a</p>
<p style="text-align: right;">Page 135</p> <p>1 procedure to the modified Kelly-Kennedy plication, 2 that at one to two years the cure rates were similar, 3 but when followed out for three years, that there was 4 a significant drop off of the other two procedures as 5 compared to the Burch. So I would not use the TVT 6 sling until we had that two-year data.</p> <p>7 Q (By Mr. Koopmann) Is some evidence thought 8 of as being more powerful than other evidence?</p> <p>9 A Yes.</p> <p>10 Q What are the highest levels of evidence?</p> <p>11 A So the randomized controlled trial is the 12 highest level of evidence. But above that is the 13 meta-analysis, and that is because it's taking 14 multiple randomized controlled trials and putting 15 them together so that you're having a higher number 16 of patients on which to base the conclusions.</p> <p>17 Q And what type of evidence did you focus on 18 in evaluating and forming your opinions in this case?</p> <p>19 MR. SCHNIEDERS: Object to the form.</p> <p>20 A I focused on the meta-analysis, as well as 21 the randomized controlled trials, but primarily 22 looking at the meta-analysis.</p> <p>23 Q (By Mr. Koopmann) What is the lowest level 24 of evidence?</p> <p>25 MR. SCHNIEDERS: Object to form.</p>	<p style="text-align: right;">Page 137</p> <p>1 protective effect for heart disease; but when we 2 followed women prospectively in a randomized 3 controlled trial, we found that that wasn't true.</p> <p>4 So looking at the highest level of evidence 5 can provide different information than cohort 6 studies.</p> <p>7 Q Are you aware of any device or procedure 8 used to treat stress urinary incontinence for which 9 there is more randomized controlled trial data than 10 the TVT device?</p> <p>11 MR. SCHNIEDERS: Object to the form.</p> <p>12 A The TVT sling is the best-studied surgery 13 in urogynecology and perhaps of any surgery that's 14 out there, but for sure within urogynecology.</p> <p>15 Q (By Mr. Koopmann) And what does that mean 16 for patients? If you were to tell a patient that the 17 TVT is the best-studied device for the treatment of 18 stress incontinence, what does that mean to them?</p> <p>19 MR. SCHNIEDERS: Object to the form.</p> <p>20 A That the information that we have about the 21 efficacy and the risks are the best type of 22 scientific data that we have, and that this data has 23 been gathered from a very large population of 24 individuals, not only in the United States, but from 25 around the world.</p>

<p style="text-align: right;">Page 138</p> <p>1 Q (By Mr. Koopmann) You were asked some 2 questions earlier today about the mesh 3 characteristics for some other manufacturers' mesh 4 devices. 5 Do you remember that line of questioning? 6 A Yes. 7 Q The Perigee product, that's a product that 8 you've used in the past? 9 A Yes. 10 Q Is that a polypropylene product? 11 A Yes. 12 Q Okay. But that polypropylene is -- 13 (All speaking simultaneously, and reporter 14 requested clarification.) 15 MR. SCHNIEDERS: Thank you. 16 Object to form. 17 Q (By Mr. Koopmann) -- is that polypropylene 18 different from the PROLENE polypropylene that Ethicon 19 uses in its devices -- 20 MR. SCHNIEDERS: Object to the form. 21 Q (By Mr. Koopmann) -- their proprietary 22 PROLENE? 23 A It's going to be different. Same way the 24 mesh for one type of retropubic or transobturator 25 sling is going to be different.</p>	<p style="text-align: right;">Page 140</p> <p>1 A Very comfortable. 2 Q (By Mr. Koopmann) And is that something 3 that you discuss with your patients from time to 4 time? If you are recommending that they have a 5 mid-urethral sling to treat their stress 6 incontinence, do you talk to the patient about how 7 many of those slings you've implanted? 8 A I do. 9 MR. SCHNIEDERS: Object to form. 10 Q (By Mr. Koopmann) And -- 11 THE DEPONENT: The court reporter is asking 12 us to slow down and turn a little bit so that she can 13 hear better. 14 MR. SCHNIEDERS: Sure. Thank you. 15 Q (By Mr. Koopmann) And do you have an 16 understanding of how some of your colleagues at your 17 current clinic or the clinics you've worked at in the 18 past, how they counseled their patients regarding 19 stress incontinence surgeries? 20 MR. SCHNIEDERS: Object to the form. 21 A So they would counsel them very similarly 22 to how I would counsel them regarding the 23 treatment -- surgical treatment of stress 24 incontinence. And as I discussed previously, you 25 know, currently there's three treatments, surgical</p>
<p style="text-align: right;">Page 139</p> <p>1 It's also different in how it is prepared. 2 Like I talked about before, the Perigee product has 3 arms that are attached to the main body of the mesh 4 with little buttons, and the amount of mesh that's 5 placed is much, much greater than what's used with 6 the sling. 7 Additionally, the amount of mesh that's 8 within the vagina is markedly greater than with the 9 retropubic TVT sling. 10 Q You were asked some questions earlier about 11 your tracking of the exact numbers of TVT slings or 12 other products that you've implanted in your patients 13 over your career. 14 Do you remember those questions? 15 A Yes. 16 Q And you said that you don't precisely track 17 the exact number of TVT slings or other products 18 you've used; is that fair to say? 19 A Yes. 20 MR. SCHNIEDERS: Object to form. 21 Q (By Mr. Koopmann) Even though you don't 22 track those number precisely, do you still feel 23 comfortable with the estimate of the numbers of 24 slings that you've implanted? 25 MR. SCHNIEDERS: Object to the form.</p>	<p style="text-align: right;">Page 141</p> <p>1 treatments for stress incontinence surgically, and 2 that would be the TVT sling, the pubovaginal sling, 3 and the Burch retropubic urethropey. 4 And so, again, we tend to reserve the 5 pubovaginal sling for very complicated cases of 6 stress incontinence, and we would offer either the 7 Burch or the TVT sling; but, again, counseling them 8 that overall, the Burch and the TVT sling have very 9 similar success rates, but because the TVT sling has 10 less -- is less invasive, it has less risks overall. 11 Q (By Mr. Koopmann) Is it commonplace for 12 surgeons to counsel their patients regarding the 13 number of slings that that surgeon has implanted, 14 even though that surgeon doesn't precisely track the 15 exact number of slings the surgeon has placed? 16 MR. SCHNIEDERS: Object to the form. 17 A It should be something that a physician or 18 surgeon discloses to a patient, yes. 19 Q (By Mr. Koopmann) And as far as you 20 understand, is it commonplace for surgeons to do that 21 for patients, to say, "I've used this sling X number 22 of times," even though that surgeon doesn't have a 23 precise number that's verifiable of the exact number 24 of slings they've placed? 25 MR. SCHNIEDERS: Object to the form.</p>

<p style="text-align: right;">Page 142</p> <p>1 A I don't think it's common for surgeons to 2 say that. 3 Q (By Mr. Koopmann) You don't think it's 4 common for surgeons to say, "I've put in a thousand 5 TVT slings before," if that's true? 6 A Oh, if that's true -- 7 MR. SCHNIEDERS: Object to the form. 8 A -- but I don't -- 9 (All speaking simultaneously, and reporter 10 requested clarification.) 11 Q (By Mr. Koopmann) -- if that's true, that 12 they have placed a thousand TVT slings. 13 A No, I think -- 14 MR. SCHNIEDERS: Object to the form. 15 Sorry. 16 MR. KOOPMANN: He's going to object to 17 every question. 18 THE DEPONENT: Okay. 19 MR. KOOPMANN: So just wait two seconds and 20 then give your answer. 21 THE DEPONENT: Okay. 22 A So if they've done a lot of slings, I think 23 they will disclose that, and -- but if they've done 24 few slings, I don't think they will disclose that. I 25 don't think they will tend to do that.</p>	<p style="text-align: right;">Page 144</p> <p>1 that we're a very small medical community within New 2 Mexico, so it would be unlikely or it would be 3 difficult for a patient to go someplace else outside 4 of Albuquerque. 5 Q (By Mr. Koopmann) And you were asked some 6 questions earlier about factoring in the pore size of 7 other types of mesh in forming your opinions. 8 Do you remember that line of questioning? 9 A Yes. 10 Q Did you factor in the pore size of the 11 Gore-Tex suburethral slings in forming your opinions 12 regarding the TVT? 13 A Yes. 14 MR. SCHNIEDERS: Object to the form. 15 Q (By Mr. Koopmann) You mentioned -- may I 16 see Exhibit 8, please. It's the whole stack. So 17 let's separate 10 and 11 out there. 18 A Here's 4. Here it is. 19 Q Okay. 20 (Pause.) 21 Q (By Mr. Koopmann) You were asked some 22 questions earlier today about your awareness of 23 studies that looked at laser-cut mesh versus 24 mechanically cut mesh. And I think you mentioned a 25 study involving the TVT and TVT ABBREVO.</p>
<p style="text-align: right;">Page 143</p> <p>1 Q (By Mr. Koopmann) When you are discussing 2 with your patients the risks of a midurethral sling 3 surgery like the TVT, do you quote for those patients 4 approximate complication rates that you've seen using 5 the sling in your own practice? 6 MR. SCHNIEDERS: Object to the form. 7 A Yes, I do. And oftentimes what I quote to 8 them is the literature; and oftentimes patients will 9 ask me what is my own personal experience, and I will 10 tell them that as well. 11 Q (By Mr. Koopmann) And do you feel 12 comfortable telling them that? 13 A I feel -- 14 MR. SCHNIEDERS: Object to the form. 15 A I feel extremely comfortable in telling 16 them the complication rates because of the very large 17 body of literature that lists those complication 18 rates. 19 Q (By Mr. Koopmann) And do you feel 20 comfortable telling your patients what your own 21 approximate complication rates are, even though you 22 don't specifically track those complication rates in 23 a data base? 24 MR. SCHNIEDERS: Object to form. 25 A Yes, I do for the reasons mentioned, is</p>	<p style="text-align: right;">Page 145</p> <p>1 Do you remember that testimony? 2 A Yes. 3 Q In one of your binders here marked TVT 4 Medical Literature Binder 1, there's a study by 5 Dr. de Barros (phonetic) and others. 6 Is that a study that you reviewed -- 7 A Yes. 8 Q -- in the course of forming your opinions 9 in this case? 10 A Yes. 11 Q And what is the significance of that study? 12 A So it's the TVT EXACT is laser cut, and the 13 TVT could be mechanical cut or possibly laser cut. 14 Q So that's a study that looks at TVT 15 laser-cut mesh and the TVT EXACT, and potentially TVT 16 mechanical-cut mesh in the other arm of the study? 17 A Yes. 18 Q Another study that's included in your 19 materials is Tommaselli, Abstract Regarding a 20 Comparison of the TVTO and TVT ABBREVO for the 21 Surgical Management of Female Stress Urinary 22 Incontinence; is that correct? 23 A Yes. 24 MR. SCHNIEDERS: Object to the form. 25 Q (By Mr. Koopmann) And the TVT -- well,</p>

<p style="text-align: right;">Page 146</p> <p>1 what's the significance of this study?</p> <p>2 A Well, the TVTO, again, could either be</p> <p>3 mechanical or laser cut, and the TVT ABBREVO is laser</p> <p>4 cut.</p> <p>5 Q Okay. Okay. Thank you.</p> <p>6 You were asked some questions earlier today</p> <p>7 about studies that tracked long-term pain.</p> <p>8 Do you remember that line of questioning?</p> <p>9 A Yes.</p> <p>10 Q And is the meta-analysis and systematic</p> <p>11 review by Dr. Tommaselli and colleagues published in</p> <p>12 the International Urogynecology Journal in 2015 one</p> <p>13 of the studies that you've reviewed and relied on in</p> <p>14 forming your opinions in this case?</p> <p>15 A Yes, it is.</p> <p>16 Q And in the abstract, it says that the</p> <p>17 study -- the meta-analysis and systematic review --</p> <p>18 looked at studies with a follow-up of 36 months for</p> <p>19 transobturator midurethral slings and 60 months for</p> <p>20 retropubic midurethral slings.</p> <p>21 That's what was searched for, right?</p> <p>22 A Yes.</p> <p>23 MR. SCHNIEDERS: Form.</p> <p>24 Q (By Mr. Koopmann) And they included data</p> <p>25 from 49 studies?</p>	<p style="text-align: right;">Page 148</p> <p>1 Q And how many total retropubic slings in the</p> <p>2 study?</p> <p>3 A 3,974.</p> <p>4 Q So 13 patients out of 3,974 had persistent</p> <p>5 or chronic pain based on this systematic review and</p> <p>6 meta-analysis?</p> <p>7 A Yes.</p> <p>8 MR. SCHNIEDERS: Object to the form.</p> <p>9 Q (By Mr. Koopmann) Do you have the Schimpf</p> <p>10 paper? It's at Tab 68.</p> <p>11 A Yes.</p> <p>12 Q Now, on the first page of the Schimpf paper</p> <p>13 under Study Design, it indicates that the authors</p> <p>14 conducted a systematic review, including English</p> <p>15 language randomized controlled trials for 1990</p> <p>16 through April 2013 with a minimum 12 months of</p> <p>17 follow-up comparing a sling procedure for SUI to</p> <p>18 another sling, a Burch urethropexy; is that right?</p> <p>19 A Yes.</p> <p>20 MR. SCHNIEDERS: Object to the form.</p> <p>21 Q (By Mr. Koopmann) And if you'll turn to</p> <p>22 Table 1, it lists the various studies, the randomized</p> <p>23 controlled trials that were included in the</p> <p>24 systematic review, correct?</p> <p>25 A Yes.</p>
<p style="text-align: right;">Page 147</p> <p>1 MR. SCHNIEDERS: Object to the form.</p> <p>2 A 49 studies were included.</p> <p>3 Q (By Mr. Koopmann) If you'll turn to the</p> <p>4 page containing Table 2.</p> <p>5 A Okay. I'm there.</p> <p>6 Q Sorry. The continuation of Table 2. It</p> <p>7 says that they defined as persistent pain all pain</p> <p>8 reported beyond the perioperative period, meaning</p> <p>9 greater than seven days after the procedure, correct?</p> <p>10 A Yes.</p> <p>11 MR. SCHNIEDERS: Object to the form.</p> <p>12 Q (By Mr. Koopmann) If you'll look at the</p> <p>13 next page, they noted that persistent or</p> <p>14 chronic pain, i.e., pain persisting beyond the</p> <p>15 perioperative period or reported at the last</p> <p>16 follow-up visit, was reported by 13 patients for</p> <p>17 retropubic midurethral slings; is that right?</p> <p>18 MR. SCHNIEDERS: Object to the form.</p> <p>19 A Yes.</p> <p>20 Q (By Mr. Koopmann) And how many retropubic</p> <p>21 midurethral slings in total were studied in this</p> <p>22 paper?</p> <p>23 A 3,801.</p> <p>24 Q Well, that's the number of TVTs, correct?</p> <p>25 A Yes.</p>	<p style="text-align: right;">Page 149</p> <p>1 Q At the bottom of the first page of Table 1,</p> <p>2 it lists a couple TVT randomized controlled trials</p> <p>3 with 12-month follow-up.</p> <p>4 MR. SCHNIEDERS: Object to the form.</p> <p>5 A There's two with 12-month and one with 48</p> <p>6 months. But that's not the TVT.</p> <p>7 Q (By Mr. Koopmann) Okay. The TVTs, it says</p> <p>8 12 months --</p> <p>9 A 12 months.</p> <p>10 Q -- for those two?</p> <p>11 A Correct.</p> <p>12 MR. SCHNIEDERS: Object to the form.</p> <p>13 Q (By Mr. Koopmann) And then on the next</p> <p>14 page of Table 1, it lists many more TVT randomized</p> <p>15 controlled trials with follow-up duration ranging</p> <p>16 from 12 months to five years; is that fair to say?</p> <p>17 MR. SCHNIEDERS: Object to the form.</p> <p>18 A Yes.</p> <p>19 MR. SCHNIEDERS: Are you going to ask any</p> <p>20 nonleading questions, Barry?</p> <p>21 Q (By Mr. Koopmann) And if you'll go to the</p> <p>22 next page, you'll see more TVT randomized controlled</p> <p>23 trials listed that have a follow-up of 12 months; is</p> <p>24 that right?</p> <p>25 MR. SCHNIEDERS: Object to the form.</p>

<p style="text-align: right;">Page 150</p> <p>1 A Yes.</p> <p>2 Q (By Mr. Koopmann) And then if you'll turn</p> <p>3 to Table 3, Table 3 lists the summary estimate of</p> <p>4 incidents for various complications seen in</p> <p>5 connection with Burch procedures, retropubic</p> <p>6 midurethral sling procedures, mini-sling procedures,</p> <p>7 obturator sling procedures, and pubovaginal sling</p> <p>8 procedures; is that right?</p> <p>9 A Yes.</p> <p>10 MR. SCHNIEDERS: Object to the form.</p> <p>11 Q (By Mr. Koopmann) And if you'll look at</p> <p>12 the Exposure section of that table, what does it</p> <p>13 indicate in terms of the relative risks of retropubic</p> <p>14 midurethral sling exposure and pubovaginal sling</p> <p>15 exposure?</p> <p>16 A So for the retropubic, it's 1.4 percent</p> <p>17 with a confidence interval from 1.1 to 1.7 percent.</p> <p>18 Q What about for the pubovaginal sling?</p> <p>19 A For the pubovaginal slings, it is</p> <p>20 5.4 percent with the confidence interval from 4</p> <p>21 to 7 percent.</p> <p>22 Q Okay. And if you'll go to the next page,</p> <p>23 it lists, for instance, bowel injury and what the</p> <p>24 relevance risk for those are with retropubic slings</p> <p>25 and Burch procedures, correct?</p>	<p style="text-align: right;">Page 152</p> <p>1 risk of overactive bladder or urgency?</p> <p>2 A Yes.</p> <p>3 Q What does it say the summary estimate of</p> <p>4 incidence for a retropubic midurethral sling</p> <p>5 procedure --</p> <p>6 (Reporter requested clarification.)</p> <p>7 Q (By Mr. Koopmann) What does it say the</p> <p>8 summary estimate of incidence is for overactive</p> <p>9 bladder or urgency in connection with a retropubic</p> <p>10 midurethral sling procedure?</p> <p>11 A 6 --</p> <p>12 MR. SCHNIEDERS: Object to the form.</p> <p>13 A 6.9 percent.</p> <p>14 Q (By Mr. Koopmann) And what does it say the</p> <p>15 summary estimate of incidence is for overactive</p> <p>16 bladder or urgency in connection with a pubovaginal</p> <p>17 sling procedure?</p> <p>18 MR. SCHNIEDERS: Object to the form.</p> <p>19 A 8.6 percent.</p> <p>20 Q (By Mr. Koopmann) On the next page of</p> <p>21 Table 3, does it list the summary estimate of</p> <p>22 incidence for retention lasting longer than six weeks</p> <p>23 postoperatively?</p> <p>24 A Yes.</p> <p>25 Q And how does the summary estimate of</p>
<p style="text-align: right;">Page 151</p> <p>1 MR. SCHNIEDERS: Object to the form.</p> <p>2 A Can I please mention, because this was</p> <p>3 something that was brought up --</p> <p>4 Q (By Mr. Koopmann) Sure.</p> <p>5 A -- in our last discussion.</p> <p>6 Return to the operating room for erosion.</p> <p>7 And that is for the pubovaginal sling, 1.6 percent;</p> <p>8 and for the retropubic, it is 1.9 percent.</p> <p>9 So, again, they are very similar, and it</p> <p>10 goes back to what I said about all surgeries for</p> <p>11 stress urinary incontinence have risks.</p> <p>12 Q And there's a risk of bowel injury with the</p> <p>13 Burch procedure?</p> <p>14 A Yes.</p> <p>15 Q What is that risk according to this study?</p> <p>16 A 3.3 percent.</p> <p>17 Q And what's the risk of a bowel injury with</p> <p>18 the retropubic midurethral sling like the TVT,</p> <p>19 according to this study?</p> <p>20 A 0.34 percent.</p> <p>21 Q Is a bowel injury a -- potentially a very</p> <p>22 significant complication?</p> <p>23 MR. SCHNIEDERS: Object to the form.</p> <p>24 A Yes, it is.</p> <p>25 Q (By Mr. Koopmann) Does this table list the</p>	<p style="text-align: right;">Page 153</p> <p>1 incidence of retention lasting more than six weeks</p> <p>2 postoperatively compare for retropubic midurethral</p> <p>3 slings like the TVT and the pubovaginal sling and the</p> <p>4 Burch procedure.</p> <p>5 MR. SCHNIEDERS: Form.</p> <p>6 A It's more than twice. Retropubic, 2.7</p> <p>7 percent; and the pubovaginal sling and the Burch,</p> <p>8 approximately 7.5 percent each.</p> <p>9 Q (By Mr. Koopmann) And is this study by</p> <p>10 Dr. Schimpf and colleagues one of the studies that</p> <p>11 you reviewed and relied upon in forming your opinions</p> <p>12 in this case?</p> <p>13 A Yes.</p> <p>14 MR. SCHNIEDERS: Object to the form.</p> <p>15 Q (By Mr. Koopmann) This is a systematic</p> <p>16 review and meta-analysis?</p> <p>17 MR. SCHNIEDERS: Object to the form.</p> <p>18 A Yes.</p> <p>19 Q (By Mr. Koopmann) Like the Tommaselli</p> <p>20 paper we just went over?</p> <p>21 A Yes.</p> <p>22 MR. SCHNIEDERS: Object to the form.</p> <p>23 Q (By Mr. Koopmann) Do you have the Ford</p> <p>24 paper in your binder there?</p> <p>25 A Yes, I do.</p>

<p style="text-align: right;">Page 154</p> <p>1 Q This study was a Cochrane review; is that 2 right?</p> <p>3 A It was a -- C-o-c-h -- okay.</p> <p>4 Q And it says what their selection criteria 5 were for this paper, correct?</p> <p>6 A Yeah, under Search Methods.</p> <p>7 Q And then below that it says --</p> <p>8 A It says --</p> <p>9 (All speaking simultaneously, and reporter 10 requested clarification.)</p> <p>11 A Below that it says, Selection Criteria.</p> <p>12 Q (By Mr. Koopmann) What does it say under 13 Selection Criteria?</p> <p>14 A Randomized or quasi-randomized controlled 15 trials amongst women with SUI, USI, or MUI in which 16 both trial arms involved an MUS operation.</p> <p>17 Q MUS operation means mid --</p> <p>18 A Midurethral sling.</p> <p>19 Q Sorry. You've got to stop and let me 20 finish the question before you start to answer so she 21 can take it all down. All right.</p> <p>22 And then the main Result section on the top 23 of the next page, Page 2, does it list there how many 24 trials involving a certain number of women that they 25 included?</p>	<p style="text-align: right;">Page 156</p> <p>1 data, along with the Schimpf study we just looked at 2 and the Tommaselli study we just looked at, that you 3 consider to be the highest level of evidence on 4 suburethral slings or midurethral slings?</p> <p>5 MR. SCHNIEDERS: Object to the form.</p> <p>6 A Yes.</p> <p>7 Q (By Mr. Koopmann) If you'll turn to 8 Page 10 of the Ford study, in the right-hand column 9 they talk about Type I mesh; is that right?</p> <p>10 A Yes.</p> <p>11 Q And what does it say there about Type I 12 mesh?</p> <p>13 A Are macroporous and monofilament, and they 14 have the highest biological -- I'm sorry -- highest 15 biocompatibility with the least propensity for 16 infections.</p> <p>17 Q And is the TVT mesh and the TVT sling a 18 Type I mesh?</p> <p>19 A Yes, it is.</p> <p>20 Q And it says further down in that paragraph: 21 Macroporous meshes pore size in excess of 75 microns 22 easily allow macrophages, leukocytes, fibroblasts, 23 blood vessels, and collagen to transverse the pores. 24 Thus, macroporous meshes promote tissue host ingrowth 25 with resultant biocompatibility and low risk of</p>
<p style="text-align: right;">Page 155</p> <p>1 A Yes.</p> <p>2 Q What does it say?</p> <p>3 A 81 trials that evaluated 12,113 women.</p> <p>4 Q And in the author's Conclusions section on 5 Page 2 -- do you see that section?</p> <p>6 A Yes.</p> <p>7 Q It says there: Midurethral sling 8 operations have been the most extensively researched 9 surgical treatment for stress urinary incontinence in 10 women and have a good safety profile. Irrespective 11 of the routes traversed, they are highly effective in 12 the short and medium term, and accruing evidence 13 demonstrates their effectiveness in the long term.</p> <p>14 This review illustrates their positive 15 impact on improving the quality of life of women with 16 SUI.</p> <p>17 Did I read that correctly?</p> <p>18 MR. SCHNIEDERS: Object to the form.</p> <p>19 A Yes.</p> <p>20 Q (By Mr. Koopmann) And is this one of the 21 studies that you reviewed and relied upon in forming 22 your opinions in this case?</p> <p>23 A Yes.</p> <p>24 MR. SCHNIEDERS: Object to the form.</p> <p>25 Q (By Mr. Koopmann) And is this the type of</p>	<p style="text-align: right;">Page 157</p> <p>1 infection. Amid 1997.</p> <p>2 Monofilament tapes are widely available and 3 now predominate in current clinical practice.</p> <p>4 Did I read that correctly?</p> <p>5 MR. SCHNIEDERS: Object to the form.</p> <p>6 A Yes.</p> <p>7 Q (By Mr. Koopmann) And is this information 8 that you reviewed and relied upon in forming your 9 opinion?</p> <p>10 A Yes, it --</p> <p>11 MR. KOOPMANN: Object to the form.</p> <p>12 A Yes, it is.</p> <p>13 Q (By Mr. Koopmann) Is the TVT mesh 14 monofilament mesh?</p> <p>15 A Yes, it is.</p> <p>16 Q You were asked some questions earlier about 17 the terminology of "erosion" versus "exposure." 18 Do you remember that line of questioning?</p> <p>19 A Yes.</p> <p>20 Q Has that terminology changed over time?</p> <p>21 A It has.</p> <p>22 Q Okay. And has your use of that terminology 23 changed over time?</p> <p>24 A Yes.</p> <p>25 Q Can a suture erosion cause chronic pain?</p>

<p style="text-align: right;">Page 158</p> <p>1 MR. SCHNIEDERS: Object to the form.</p> <p>2 A In the same way that potentially a mesh</p> <p>3 exposure could.</p> <p>4 Q (By Mr. Koopmann) So the answer is yes?</p> <p>5 A Yes.</p> <p>6 Q You were asked some questions earlier by</p> <p>7 plaintiff's counsel about the shrinkage of</p> <p>8 polypropylene or contraction of polypropylene.</p> <p>9 Does scar tissue shrink as it heals?</p> <p>10 MR. SCHNIEDERS: Object to the form.</p> <p>11 A From an in -- when you make an incision?</p> <p>12 Q (By Mr. Koopmann) Yeah.</p> <p>13 MR. SCHNIEDERS: Object to the form.</p> <p>14 A So there will be some minor shrinkage, and</p> <p>15 then there may be actually some stretching out with</p> <p>16 time as the tissues get remodeled.</p> <p>17 Q (By Mr. Koopmann) And so if there is any</p> <p>18 shrinkage of a sling following the implantation of</p> <p>19 the TVT, is it the mesh itself that shrinks, or is it</p> <p>20 the tissue that's incorporated into the mesh that</p> <p>21 shrinks?</p> <p>22 MR. SCHNIEDERS: Object to the form.</p> <p>23 A More than likely it's the tissue that's</p> <p>24 growing into the mesh.</p> <p>25 Q (By Mr. Koopmann) You were asked some</p>	<p style="text-align: right;">Page 160</p> <p>1 rate to be passed along?</p> <p>2 Would it need to be -- you know, could it</p> <p>3 be a single case report or would it need to be</p> <p>4 randomized controlled trials or what sort of evidence</p> <p>5 would you want to be seeing there?</p> <p>6 MR. SCHNIEDERS: Object to the form.</p> <p>7 A So as I mentioned previously, for there --</p> <p>8 there would have to be evidence of shrinkage</p> <p>9 clinically. And that could be done in multiple,</p> <p>10 multiple studies; and that could be done with</p> <p>11 ultrasound; it could be done with examination, for</p> <p>12 example, with a Q-tip test where if there was that</p> <p>13 amount of shrinkage, then we should see contraction</p> <p>14 underneath the urethra.</p> <p>15 So we mention the Q-tip test, that means</p> <p>16 the Q-tip test would be negative, so it would be</p> <p>17 deflected downward, indicating that the urethra was</p> <p>18 being pulled up.</p> <p>19 We would also see significant increase in</p> <p>20 voiding dysfunction or otherwise known as urinary</p> <p>21 tension with the shrinkage.</p> <p>22 And as we just reviewed the Schimpf</p> <p>23 article, the risk of retention with the retropubic</p> <p>24 TVT sling is quite low, and surgical revision of the</p> <p>25 TVT sling for retention is also very low and doesn't</p>
<p style="text-align: right;">Page 159</p> <p>1 questions earlier about whether the mesh -- the TVT</p> <p>2 mesh was designed to do certain things like rope or</p> <p>3 curl or fray or lose particles.</p> <p>4 Do you remember those questions?</p> <p>5 A Yes.</p> <p>6 Q And I think your testimony was: It's</p> <p>7 designed to correct SUI, correct?</p> <p>8 MR. SCHNIEDERS: Object to the form.</p> <p>9 A Yes.</p> <p>10 Q (By Mr. Koopmann) For instance, a car</p> <p>11 could be driven into a ditch, but it wasn't</p> <p>12 necessarily designed to do that; is that fair to say?</p> <p>13 MR. SCHNIEDERS: Object to the form.</p> <p>14 A Yes.</p> <p>15 Q (By Mr. Koopmann) Do you think surgeons</p> <p>16 need to be informed by medical device manufacturers</p> <p>17 about risks that are commonly known among pelvic</p> <p>18 floor surgeons?</p> <p>19 MR. SCHNIEDERS: Object to the form.</p> <p>20 A No, I do not.</p> <p>21 Q (By Mr. Koopmann) You were asked some</p> <p>22 questions earlier about whether a 30 percent</p> <p>23 shrinkage rate would need to be passed along.</p> <p>24 What sort of data do you think would be</p> <p>25 required in your opinion for a 30 percent shrinkage</p>	<p style="text-align: right;">Page 161</p> <p>1 increase with time.</p> <p>2 So this clinical data supports that the TVT</p> <p>3 does not shrink with time. And so for that to be</p> <p>4 refuted would require extensive studies.</p> <p>5 Q (By Mr. Koopmann) Okay. If there's a</p> <p>6 document in the binder that's labeled SUI Mesh</p> <p>7 Documents Binder 1 that references a 30 percent rate</p> <p>8 of shrinkage of the TVT sling, is that a document</p> <p>9 that you would have reviewed before forming your</p> <p>10 opinions in this case?</p> <p>11 A Yes, it is.</p> <p>12 MR. SCHNIEDERS: Object to the form.</p> <p>13 Q (By Mr. Koopmann) Because you've reviewed</p> <p>14 all the documents in SUI Mesh Documents Binder 1?</p> <p>15 MR. SCHNIEDERS: Object to the form.</p> <p>16 (Reporter requested clarification.)</p> <p>17 Q (By Mr. Koopmann) Is that because you've</p> <p>18 reviewed all of the documents in SUI Mesh Documents</p> <p>19 Binder 1?</p> <p>20 MR. SCHNIEDERS: Object to the form.</p> <p>21 A Yes, I reviewed all of those documents.</p> <p>22 Q (By Mr. Koopmann) You were asked some</p> <p>23 questions earlier about some Code of Federal</p> <p>24 Regulations -- regulations and FDA guidance documents</p> <p>25 that you reviewed.</p>

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1 Do you remember those questions?
2 MR. SCHNIEDERS: Object to the form.
3 A Yes, I do.
4 Q (By Mr. Koopmann) Is it fair to say that
5 what you reviewed in those documents is consistent
6 with your opinions regarding the appropriateness of
7 the IFU that you set forth in your general TVT expert
8 report?
9 MR. SCHNIEDERS: Object to the form.
10 A Yes. As I said in my report is that it's
11 really dependent on the surgeon to know what the
12 risks are for any given procedure, and that the IFU
13 should contain only those things that are not well
14 known to a surgeon or those things that are specific
15 to that device. And that is consistent with what I
16 wrote in my general report.
17 Q (By Mr. Koopmann) You were asked some
18 questions about a paper by a Dr. Gerard Agnew and
19 others entitled Functional Outcomes Following
20 Surgical Management of Pain Exposure or Extrusion
21 Following a Suburethral Tape Insertion for Urinary
22 Stress Incontinence.
23 Do you remember those questions?
24 A Yes.
25 Q If that article was published in the

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1 International Urogynecology Journal in 2014, do you
2 think it's more likely than not that you would have
3 reviewed that particular paper when it was published?
4 MR. SCHNIEDERS: Object to the form.
5 A Absolutely.
6 Q (By Mr. Koopmann) Because you read the
7 International Urogynecology Journal every month or
8 whenever it comes out?
9 A Yes.
10 MR. SCHNIEDERS: Object to the form.
11 A Yes, I do, along with the journal from
12 AUGS.
13 Q (By Mr. Koopmann) Has all of the journal
14 reading that you've been doing on stress incontinence
15 and its surgical treatment over the course of your
16 career been factored into your opinions that you
17 formed in this case?
18 A Yes --
19 MR. SCHNIEDERS: Object to the form.
20 A Yes, it has.
21 Q (By Mr. Koopmann) And based on your use of
22 the TVT device in more than a thousand surgical cases
23 and your review of the medical literature regarding
24 the TVT sling and alternative treatments, do you
25 consider yourself an expert on the design of the TVT

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1 sling?
2 MR. SCHNIEDERS: Object to the form.
3 A Yes, I do.
4 Q (By Mr. Koopmann) There's no manufacturer
5 to teach surgeons how to tension the sutures used in
6 a Burch procedure, is there?
7 MR. SCHNIEDERS: Object to the form.
8 A No, there is not. That's something that
9 you learn during your training and that you learn
10 while operating on patients.
11 Q (By Mr. Koopmann) There's no manufacturer
12 to teach surgeons how to properly tension an
13 autologous fascial sling, is there?
14 MR. SCHNIEDERS: Object to the form.
15 A No, there is not.
16 Q (By Mr. Koopmann) Does the amount of mesh
17 used in a sling procedure depend to some extent on
18 the patient's body habitus?
19 MR. SCHNIEDERS: Object to the form.
20 A So the more heavy a patient is, the more
21 subcutaneous tissue there is, the greater the mesh
22 that will be used, although, the amount that's within
23 the vaginal area will be pretty much the same because
24 it's the subcutaneous tissues that are abdominally
25 where the increased length of the sling will be.

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1 (Pause.)
2 Q (By Mr. Koopmann) Does the reliable
3 scientific evidence that you have assessed on the TVT
4 device and the intended use of treating stress
5 urinary incontinence show that there's a significant
6 risk of mesh roping?
7 MR. SCHNIEDERS: Object to the form.
8 A No.
9 Q (By Mr. Koopmann) Does it show that
10 there's a significant risk of mesh curling?
11 A No.
12 MR. SCHNIEDERS: Object to the form.
13 Q (By Mr. Koopmann) Does it show that
14 there's a significant risk of mesh fraying?
15 MR. SCHNIEDERS: Object to the form.
16 A No.
17 Q (By Mr. Koopmann) Does it show that
18 there's a significant risk of mesh pore collapse?
19 MR. SCHNIEDERS: Object to the form.
20 A No.
21 Q (By Mr. Koopmann) Does it show that
22 there's a significant risk of degradation?
23 MR. SCHNIEDERS: Object to the form.
24 A No.
25 Q (By Mr. Koopmann) Does it show that

<p>Page 166</p> <p>1 there's a significant risk of fibrotic bridging?</p> <p>2 MR. SCHNIEDERS: Object to the form.</p> <p>3 A No.</p> <p>4 Q (By Mr. Koopmann) Does it show that</p> <p>5 there's a lack of biocompatibility for the TVT mesh?</p> <p>6 MR. SCHNIEDERS: Object to the form.</p> <p>7 A No.</p> <p>8 Q (By Mr. Koopmann) Have all of the opinions</p> <p>9 that you've offered here today been offered to a</p> <p>10 reasonable degree of medical certainty?</p> <p>11 A Yes, they have.</p> <p>12 MR. KOOPMANN: Those are all the questions</p> <p>13 I have.</p> <p>14 MR. SCHNIEDERS: All right. It's 1:15 your</p> <p>15 guys' time, so why don't we plan on coming back in at</p> <p>16 2:00 your time, all right?</p> <p>17 MR. KOOPMANN: Okay. That sounds good.</p> <p>18 (The deposition concluded at 1:15 p.m.,</p> <p>19 March 7, 2017.)</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p>Page 168</p> <p>1 STATE OF COLORADO)</p> <p>2) ss. REPORTER'S CERTIFICATE</p> <p>3 COUNTY OF DENVER)</p> <p>4 I, Dianna L. Buckstein, do hereby certify</p> <p>5 that I am a Professional Shorthand Reporter and</p> <p>6 Notary Public within the State of Colorado; that</p> <p>7 previous to the commencement of the examination, the</p> <p>8 deponent was duly sworn to testify to the truth.</p> <p>9 I further certify that this deposition was</p> <p>10 taken in shorthand by me at the time and place herein</p> <p>11 set forth, that it was thereafter reduced to</p> <p>12 typewritten form, and that the foregoing constitutes</p> <p>13 a true and correct transcript.</p> <p>14 I further certify that I am not related to,</p> <p>15 employed by, nor of counsel for any of the parties or</p> <p>16 attorneys herein, nor otherwise interested in the</p> <p>17 result of the within action.</p> <p>18 In witness whereof, I have affixed my</p> <p>19 signature this 20th day of March, 2017.</p> <p>20 My commission expires November 25, 2017.</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p> <p>Dianna L. Buckstein 216 - 16th Street, Suite 600 Denver, Colorado 80202</p>
<p>Page 167</p> <p>1 I, DOROTHY KAMMERER-DOAK, M.D. do hereby certify</p> <p>2 that I have read the foregoing transcript and that</p> <p>3 the same and accompanying amendment sheets, if any,</p> <p>4 constitute a true and complete record of my</p> <p>5 testimony.</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13 Acknowledged before me this ____ day of</p> <p>14 _____, 20__.</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p> <p>DLB</p>	